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ABSTRACT

The material in this catalog has been compiled to serve as a ready reference for teachers to assist them in locating outdoor education materials and obtaining environmental student project assistance available from government departments and private organizations within the province of Manitoba. Part 1 lists agencies that can provide speakers, assist with programs, serve as consultants, and support field trip experiences. Guidelines for camps and field trips, including communication, financing, resource personnel, equipment and safety procedures, timetables, student discipline, and transportation, are suggested. Part 2 lists the publications and audio-visual resources available from the following sources: the Provincial Departments of Manitoba (including: the Department of Agriculture; the Department of Industry, Trade and Tourism; the Department of Education and Training; and the Department of Natural Resources); the federal Departments of Canada (including: the Forestry Service; the Wildlife Service; the Department of Fisheries and Oceans; the National Film Board; and the Parks Service); and private organizations (including: Ducks Unlimited Canada, and the Manitoba Forestry Associations). Phone numbers and addresses for making contact are included. (JJK)

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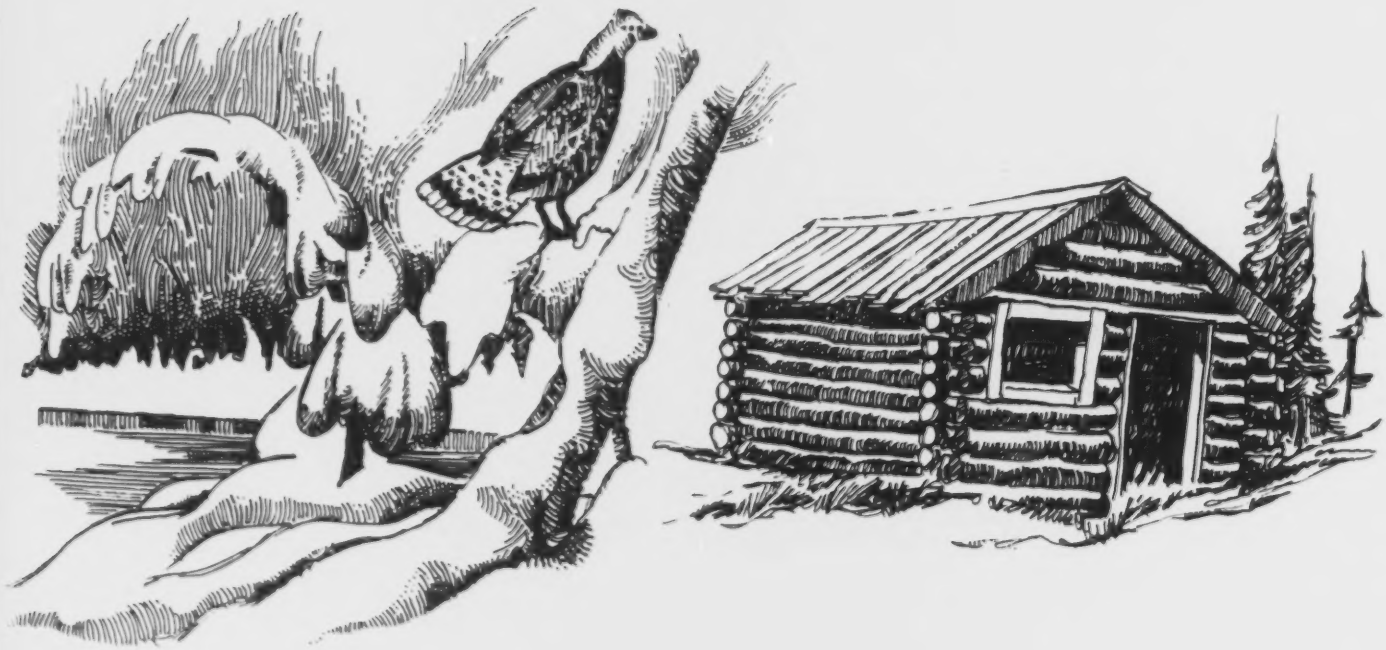
OUTDOOR EDUCATION



RESOURCE CATALOGUE

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1991

Manitoba Education and Training

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OUTDOOR EDUCATION

RESOURCE CATALOGUE

Manitoba Education and Training

1991

ISBN 0-7711-1003-0

FOREWORD

The material in this catalogue has been compiled to serve as a ready reference for teachers to assist them in locating outdoor education materials that are available from government departments and private organizations.

It is impossible to list all resources dealing with outdoor education. Interested persons are asked to contact the appropriate agency for assistance.

ACKNOWLEDGEMENTS

Pictures for the cover were obtained from the Mistik Creek Canoe Map originally prepared by the Parks Branch of the Manitoba Department of Tourism, Recreation and Cultural Affairs.

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R3G 0T3

Ph. 945-6877

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SERVICES

AGENCIES AND ORGANIZATIONS

The following organizations may be able to provide speakers, assist with programs or serve as consultants. Contact the agencies or organizations listed to become more aware of their specific services.

Agency	Phone No.
City of Winnipeg Parks and Recreation Department	986-3700
Crafts Guild of Manitoba Inc.	943-1190
Manitoba Camping Association	985-4166
Manitoba Department of Culture, Heritage and Recreation (Recreation Branch)	945-0487
Manitoba Environmental Network	956-1468
Manitoba Forestry Association	453-3182
Manitoba Historical Society	947-0559
Manitoba Milk Producers' Marketing Board	488-6455
Manitoba Museum of Man and Nature (Education)	956-2830
Manitoba Natural Resources	945-6784/8285
Manitoba Naturalists Society	943-9029
Manitoba Outdoor Education Association (MTS)	888-7961
Manitoba Parks and Recreation Association	784-1132
Manitoba Physical Education Teachers' Association (MTS)	888-7961
Manitoba Wildlife Federation	633-5967
Manitoba Wildlife Rehabilitation Organization	888-3094
Canadian Red Cross Society/Manitoba Division	772-2551
Whitemouth Lion's Centre for the Handicapped	348-7356
Fort Whyte Centre for Environmental Education	895-7001
YM-YWCA of Winnipeg (Camps Branch)	942-8157

CAMPS

Communications

Thoroughly investigate the camps available. Choose the one most suited to the proposed activity.

Make tentative reservations and apply to the school principal and the school board (if necessary) for permission to make the trip.

After receiving official approval, inform the students' parents about camp activities and obtain a signed form of parental consent.

Contact the resource persons to be included in the activity and arrange to make a prior on-site visit with them.

Written contracts should be obtained from all parties.

Resource Personnel

Select resource persons according to their qualifications and demonstrated abilities. Ensure compatibility with the students and with one another.

Decide whether the resource persons will serve strictly as instructors or supervisors. Delegate responsibilities accordingly.

Financing

After determining the cost per student for the camp visit (keeping in mind that an advance deposit is usually required by the camp), plan fundraising activities well in advance, and promote the project with parents.

Projects should begin several months before the outing to ensure that a sufficient amount of money is available.

Equipment

Check working condition of equipment.

Discuss with the camp coordinator what equipment the camp provides.

Health and Safety Procedures

Assess the camp area to determine any potential dangers; to set boundaries; and to locate the nearest telephone, fire-fighting equipment, first aid supplies and doctor.

Before the actual trip, carefully outline to students the safety criteria for certain activities i.e. swimming ability as prerequisite to canoeing.

Timetabling

Confirm reservations and transportation schedules before starting out.

Establish a daily routine with designated time slots for each activity. Allow for some free time, but not too much.

Allow plenty of time for each activity, but do not let things lag. Keep activities continuous.

Discipline

To coordinate activities, there should be only **ONE** person in charge, with delegation of responsibility for specific areas to the accompanying resource persons.

Acquaint the resource persons with discipline methods and rules of both the school and the camp. These should be previously outlined to the students.

Suggested adult/student ratio: 1/10.

Transportation

Consider the cost factors when deciding whether the vehicle of transportation should stay at the site or return, if it is necessary to make more than one trip.

Confirm transportation schedules, time zones, and allow for contingency time in setting the schedule.

Arrange for personal floatation devices (PFD's) if water transportation is included.

Do not overlook the possibility that the trip TO the site itself can serve as a learning activity. Careful planning can make use of every available moment.

Guidelines for Selecting a Residential Camp

With many camps available, it is important to choose one that best suits the needs of the program. Consider the following when making this decision to match the site to the program objectives.

- the facility and terrain -
  e.g. space to accommodate the planned activities,

- the abilities of the students and teachers -
  e.g. student, teacher's readiness level to assume the required responsibilities and stresses,

- the centre's equipment and services -
  e.g. preparation of own food vs food services;
  recreational equipment available,

- the cost factor -
  e.g. cost of food: Do supervisors pay?
  What does the special package program offer?

To avoid disappointment and organizational problems, it is strongly recommended **TO THINK** through the program objectives. Consider the energy and expertise of the staff, the students' readiness, what the centre offers, time, and cost factors.

For a current directory on Manitoba camps contact the:

Manitoba Camping Association
194A Sherbrook Street
Winnipeg, Manitoba
R3G 2B6

Phone: 784-1130

PUBLICATIONS, BOOKS AND AUDIO-VISUAL RESOURCES

PROVINCIAL DEPARTMENTS

Manitoba Agriculture

For a complete listing of pamphlets available from Manitoba Agriculture, contact the address below:

Publications Distribution Centre
Manitoba Agriculture
411 York Avenue (Basement)
Winnipeg, Manitoba
R3C 3M1

Phone: 945-3846

Manitoba Industry, Trade and Tourism

a) Films

Films are available for loan from:

Manitoba Industry, Trade and Tourism
Room 700
155 Carlton Street
Winnipeg, Manitoba
R3C 3H8

Phone: 945-3998

b) Publications

A listing of all free publications available from Manitoba Culture, Heritage and Recreation can be obtained by contacting:

Historic Resources Branch
3rd Floor, 177 Lombard Avenue
Winnipeg, Manitoba
R3B 0W5

Phone: 945-3844

Manitoba Education and Training

a) Manitoba Textbook Bureau

Outdoor education curriculum materials are listed in the Manitoba Textbook Bureau Catalogue.

Manitoba Textbook Bureau
277 Hutchings Street
Winnipeg, Manitoba
R2X 2R4

Phone: 945-8940

Note: Outdoor education materials formerly available from the Curriculum Development and Implementation Branch, Manitoba Education, are now available through:

Manitoba Outdoor Education Association
c/o Manitoba Teachers' Society
191 Harcourt Street
Winnipeg, Manitoba
R3J 2H2

Phone: 888-7961

b) Instructional Resources Branch

Audio-visual materials (other than 16 mm films and videorecordings) are available for loan from:

Library
Manitoba Education and Training
Box 3, Main Floor
1181 Portage Avenue
Winnipeg, Manitoba
R3G 0T3

Phone: 945-5371

WATS Toll Free Line: 1-800-282-8069, extension 5371

To Borrow:

1. Come in, write in, or phone in requests.

2. Loan of materials is free of charge. Postage is paid both ways by Manitoba Education.

3. Hours of Operation:

   September - May:

   Monday - Thursday: 8:30 A.M. - 9:00 P.M.
   Friday: 8:30 A.M. - 5:00 P.M.
   Saturday: 8:30 A.M. - 4:00 P.M.

   June, July and August:

   Monday - Friday 8:30 A.M. - 4:30 P.M.
   (closed Saturdays and evenings)

4. Limitations: 4 records or cassettes at any one time.
   2 kits at any one time.
   Audio-visual materials cannot be renewed.

Books and Pamphlets

Contact: Reference Librarian
Library, Manitoba Education and Training
1181 Portage Avenue
Winnipeg, Manitoba
R3G 0T3

Phone: 945-7830

WATS Toll Free: 1-800-282-8069, extension 7830

Audio-Visual Resources

Ecology

K 301.3 E96 — Exploring Your Environmental Choices: An Inquiry and Decision Making Approach. Metropolitan Life Insurance Company, 1974. (multi-media)

K 301.31 B44 — The Beer Can by the Highway. Schloat Productions, 1972. (1 filmstrip, 1 cassette, teacher's guide)

PT 301.31 C65 — Commoner, Barry. Science and Social Action. National Science Teachers Association, 1972. (1 cassette)

K 301.31 E3 — Ecology: Understanding the Crises. Encyclopedia Brittanica Educational Corporation, 1972. (6 cassettes, 6 filmstrips)

K 301.34 S55 — McLaughlin, Roberta and Lucille Wood. Sing a Song of Home and Community. Bowmar, 1972.

K 301.31 T44 — Thexton, Catherine. An Ecology Module: The Biotic Components of an Ecosystem. Instructional Media Services, Manitoba Department of Education, 1978. (44 leaves in binder, 60 slides)

PT 301.31 L5d — "Limits to Growth" and Its Detractors. C.B.C. (Learning Systems) (1 audio-cassette)

PT 301.31 L5p — "Limits to Growth" and Its Proponents. C.B.C. (Learning Systems) (1 audio-cassette)

K 301.31 M35 — Man and His Environment: in Harmony and in Conflict. The Center for Humanities, 1971. (160 slides, 4 cassettes, 2 records, teacher's guide)

PT 301.32 P6 — Population Growth. C.B.C. (Learning Systems) (1 audio-cassette)

K 301.32 S35 — The Science and Ethics of Population Control: An Overburdened Earth? Science and Mankind, Inc., 1975. (160 slides, 2 cassettes, 2 records, teacher's guide)

Outdoor Education

K 613.89 09 — Outdoor Survival. Moreland - Latchford. (6 filmstrips, 6 cassettes, guide)

Contents:
1. Water Rescue
2. First Aid in the Bush
3. Basic Distress Signals
4. Elementary Canoeing
5. Outdoor Survival Kit
6. How to Make a Fire and Shelter

K 796.5 098 — Outdoor Education. Moreland - Latchford. (6 filmstrips, 6 cassettes, guide)

K 796.5 088 — Outdoor Education (Kit). Gino Ferr (ed.) (2 filmstrips, 2 cassettes)

Biology

K 574 Ec — Ecology: Land and Water. Jamaica, N.Y.: Eye Gate House. (4 filmstrips, 2 records)

K 574 S83 — Starting Life. Visual Publications, 1974. (4 filmstrips, 4 sound cassettes, 4 guides)

K 574.5 E96 — Exploring Ecology. National Geographic Society, 1974. (5 filmstrips, 5 cassettes, teacher's guide)

Science, Elementary and Secondary

K 372.35 T38 — Taylor, Frank D. Exploring Our Environment: Science Tasks (Cards). Denver Colo.: Love Pub. Co., 1970.

PD 525 Do — Douglas, Robert. All About the Seasons. Vocalion, n.d. (record)

K 551.5 P37 — Parker, Don H. Weather and Climate. Chicago, SRA, 1963.

K 574.5 G74 — Green Plants in a Community. Chicago: Society for Visual Education, 1973. (1 filmstrip, 1 sound cassette, 1 teacher's guide)

Periodicals

Periodicals are only available for use at the Manitoba Education and Training Library. Winnipeg teachers are requested to come in person to the library to use these materials. Teachers outside of Winnipeg can receive, free of charge, limited numbers of xeroxed copies of requested magazine articles. For further information, contact the Periodicals Technician at 945-7831 or Toll Free Line 1-800-282-8069, extension 7831.

Periodicals in the subject area of Outdoor Education include:

BEAVER (1967 - to date)

Hudson's Bay Company
450 Portage Avenue
Winnipeg, Manitoba
R3C 0E7

Frequency: bimonthly
Price: $16.52

BULLETIN OF ENVIRONMENTAL EDUCATION (Nov., 1974 - 1986)

Streetwise
BEE SUBS
c/o Notting Dale Urban Studies Centre
189 Freston Road
London W10 6TH

Frequency: monthly
Price: $38.64 (U.S.)

CHICKADEE (1983 - 1988)

Chickadee
Young Naturalist Foundation
56 The Esplanade, Suite 306
Toronto, Ontario
M5E 1A7

Frequency: 10 times per year
Price: $14.78 (U.S.)

CONSERVATION COMMENT (June, 1976 - to date)

Manitoba Department of Natural Resources
Public Information
Box 22
1495 St. James Street
Winnipeg, Manitoba
R3H 0W9

Frequency: irregular
Price: free

DAWSON AND HIND (1973 - to date)

The Association of Manitoba Museums
440 - 167 Lombard Avenue
Winnipeg, Manitoba
R3B 0T6

Frequency: 3 times per year
Price: $15.00

EQUINOX, THE MAGAZINE OF CANADIAN DISCOVERY (1982 - to date)

Equinox
Telemedia Publishing Inc.
7 Queen Victoria Road
Camden East, Ontario
K0K 1J0

Frequency: 6 times per year
Price: $18.16

GEOS (Summer, 1976 - to date)

GEOS
Energy, Mines and Resources
580 Both Street
Ottawa, Ontario
K1A 0E4

Frequency: quarterly
Price: free

JOURNAL OF ENVIRONMENTAL EDUCATION (1970/71 - 1987; 1990 -)

Heldref Publications
4000 Albemarle Street N.W.
Washington, D.C. 20016

Frequency: quarterly
Price: $55.00 (U.S.)

JOURNAL OF OUTDOOR EDUCATION (Winter, 1975 - to date)

Editor
Box 299
Oregon, Illinois 61061

Frequency: once a year
Price: free

MANITOBA OUTDOOR EDUCATION ASSOCIATION NEWSLETTER (1977 - to date)

Manitoa Teachers' Society
191 Harcourt Street
Winnipeg, Manitoba
R3J 3H2

Frequency: 5 times per year
Price: $19.00

NATIONAL GEOGRAPHIC (1959 - to date)

National Geographic Society
17th and M. Sreets N.W.
Washington, D.C. 20036

Frequency: monthly
Price: $31.95 (U.S.)

NATIONAL GEOGRAPHIC WORLD (Sept., 1975 - 1988)

National Geographic Society
Department 00583
17th and M Streets N.W.
Washington, D.C. 20036

Frequency: monthly
Price: $12.75

NATIONAL WILDLIFE (1974 - 1988)

National Wildlife Federation
142 - 16th Street, N.W.
Washington, D.C. 20036

Frequency: bi-monthly
Price: $17.40

NATURAL HISTORY MAGAZINE (April, 1967 - 1987)

American Museum of Natural History
Central Park W. at 79th Street
New York, N.Y. 10024

Frequency: monthly
Price: $25.52

NATURE CANADA (1973 - to date)

Magazine Services
Canadian Nature Federation
453 Sussex Drive
Ottawa, Ontario
K1N 6Z4

Frequency: quarterly
Price: $22.72 (U.S.)

OUTDOOR CANADA Dec., 1972 - 1986)

Outdoor Canada Magazine Ltd.
801 York Mills Road
Ste. 301
Toronto, Ontario
M3B 1X7

Frequency: 9 times per year
Price: $28.31 (U.S.)

OWL, THE DISCOVERY MAGAZINE FOR CHILDREN (May, 1977 - 1988)

Owl
The Young Naturalist Foundation
56 The esplanade
Suite 306
Toronto, Ontario
M5E 1A7

Frequency: 10 times per year
Price: $14.95

SCIENCE ACTIVITIES (1970 - to date)

HELDREF Publications
4000 Albemarle Street N.W.
Washington, D.C. 20016

Frequency: quarterly
Price: $46.00 (U.S.)

SCIENCE AND CHILDREN (1965/66 - to date)

National Science Teachers Association
1742 Connecticut Avenue N.W.
Washington, D.C. 20009

Frequency: 8 times per year
Price: $53.00 (U.S.)

SCIENCE TEACHER (1953 - to date)

National Science Teachers Association
1742 Connecticut Avenue N.W.
Washington, D.C. 20009

Frequency: 9 times per year
Price: $53.00 (U.S.)

Other useful titles that are no longer published, which you may find in your school library or at the Department of Education Library, include:

CONSERVATION CANADA (July, 1975 - Summer, 1980)

ARCTIC IN COLOUR (Summer, 1972 - 1978)

MANITOBA NATURE (Winter, 1972 - Summer, 1982)

N.B. - The dates following the titles of periodicals indicate the holdings of the Department of Education Library.

- The prices quoted are for 1989 (in Canadian funds) and are subject to change without notification.

Periodical indexes provide valuable access to the materials found in journals. The subject heading OUTDOOR EDUCATION in the following periodical indexes will lead you to more information.

CURRENT INDEX TO JOURNALS IN EDUCATION

EDUCATION INDEX

CANADIAN EDUCATION INDEX

Films/Videorecordings

To acquire films and videorecordings which are available for booking contact:

Film/Video Booking and Reference Services
Library, Manitoba Education and Training
Box 2, Main Floor
1181 Portage Avenue
Winnipeg, Manitoba
R3G 0T3

Telephone: 945-7849
WATS Toll Free Line: 1-800-592-7330

For assistance, call the Reference Librarian:

Telephone: 945-7851
WATS Toll Free Line - 1-800-282-8069, Ext. 7851

Booking Information

- Request films/videos by phone or mail (preferably phone).
- Each user is assigned a client number which should be given during telephone or mail requests for films/videos.
- Client numbers are on file along with mailing address information. Film/Video Booking and Reference Services must be informed if there is a change in this address.
- Bookings may be made for the current date and to a maximum of two months in advance, and will be confirmed over the phone and by mail.
- Information needed when booking by phone includes: film/video title; call number and client number; show date; alternative dates; substitute title and number and specific delivery mechanism (in person pick-up, mail, school division courier).
- Booking by mail is done using the forms located at the back of the Catalogue of Bookable 16 mm Films and Videorecordings 1988.
- Films/videorecordings must be returned in the appropriate can/case in the used state and include packing slip. Continual failure to return films/videos promptly may result in suspended borrowing privileges.

To acquire videorecordings which are available for dubbing contact:

Dubbing Center
Library, Manitoba Education and Training
Box 4, Main Floor
1181 Portage Avenue
Winnipeg, Manitoba
R3G 0T3

Telephone: 945-7848
WATS Toll Free Line: 1-800-282-8069, Ext. 7848

Dubbing Information

- Copies of the video programs may be obtained by forwarding sufficient blank tape to the Dubbing Center with a completed Dubbing Request Form and a $2.00 per tape dubbing fee.

- Payment of the $2.00 per tape dubbing fee may be made using the divisional Textbook Bureau account, school division purchase order, cheque or cash.

- Blank tapes may be purchased from the Manitoba Textbook Bureau which will be transferred to the Dubbing Center. The costs are listed on the dubbing forms available from the Library, or can be obtained by calling the Dubbing Center, or Textbook Bureau.

- The Dubbing Center cannot record at X's 2 or X's 3 speeds for any format, and cannot record on L830 Beta cassettes.

- If a title lists N/A under the VHS or BETA numbers, this title is only available for Dubbing. There are no loan copies.

VIDEORECORDINGS

. AGES 6-8

SCIENCE

Animal Homes

All creatures have homes - each suited to the lifestyle, needs and habits of the individual. This series deals with homes of a variety of creatures in three different groups of nature's families - birds, insects and animals.

1. Animal Homes of Feathered Friends (30 min.)--DUBBING #VT-513;
   CALL #6673 (VHS), 6674 (BETA)
2. Tree-Trunk Apartments (20 min.)--DUBBING #VT-514;
   CALL #6657 (VHS), 6658 (BETA)
3. Homes of Finest Silk (20 min.)--DUBBING #VT-515;
   CALL #6659 (VHS), 6660 (BETA)
4. Chicadee Chuckwagon (15 min.)--DUBBING #VT-600;
   CALL #6661 (VHS), 6662 (BETA)
5. At Home Between the Tides (15 min.)--DUBBING #VT-601;
   CALL #6663 (VHS), 6664 (BETA)
6. At Home in Rock Pools (15 min.)--DUBBING #VT-602;
   CALL #6665 (VHS), 6666 (BETA)
7. At Home in Sand and Eel Grass (15 min.)--DUBBING #VT-603;
   CALL #5144 (VHS), 5145 (BETA)
8. At Home on Stony Beaches (15 min.)--DUBBING #VT-604;
   CALL #5146 (VHS), 5147 (BETA)

SOCIAL STUDIES

Let's Go Find Out (20 min. each)

Series is designed to complement the social studies program at the primary level.

1. Let's Go Find Out About Dogs--DUBBING #VT-284; CALL # (N/A)

   Though the program offers glimpses into some areas of dog training for specific duties, the chief purpose of the program is to further strengthen a child's joy and wonder in experiencing the relationship which should be an integral part of owning, caring for and just "loving" a dog.

2. Let's Go Find Out About Farms--DUBBING #VT-572;
   CALL #6735 (VHS), 6736 (BETA); 16 mm film - 1984

   A program in which viewers make initial acquaintance with a grain farm, a beef herd, dairy cattle and egg production. Specific features of each industry are pointed out, and children are encouraged to realize the dependence which everyone has on the farm and the farmer.

AGES 9-12

SCIENCE

Science, Simply (15 min. each)

Simple, everyday events are explained scientifically in a series of four 15-minute programs, based on the textbook "Concepts in Science". Each program will show easy-to-follow, do-it-yourself experiments.

1. Sound--DUBBING #VT-130; CALL #6503 (VHS), 6504 (BETA)

   This program explores the world of sound; how sounds are produced and how they travel to reach our ears.

2. Light--DUBBING #VT-133; CALL #6505 (VHS), 6506 (BETA)

   This program looks into light and its unique properties and behaviours.

3. Water--DUBBING #VT-140; CALL #6507 (VHS), 6508 (BETA)

   This program investigates water: what it is, where it comes from, and where it "disappears" to.

4. Air--DUBBING #VT-143; CALL #6509 (VHS), 6510 (BETA)

   This program is a study of air and molecules of which it consists.

Sno' Use (20 min. each)

This series looks at all the interesting activities we can enjoy through snow use and all the good things about a winter season.

1. Adapt or...?--DUBBING #VT-256; CALL #6585 (VHS), 6586 (BETA)

   This program takes a look at how birds, animals and man have adapted to winter and at the ways we are encouraged to enjoy the best of the season and so relieve our cold weather tensions.

2. Tracking Down the Subject--DUBBING #VT-691, CALL #6583 (VHS), 6584 (BETA)

   Children sketch winter scenery and learn how to make casts of snow tracks.

3. Prove It to Me--DUBBING #VT-255; CALL #6581 (VHS), 6582 (BETA)

   Interesting facts such as the purity of snow, the amount of water in snow, the temperature of ice and the wind chill factor are discussed. A visit to an ice fishing derby and the making of an ice lens are other attractions of this program.

4. Winter in the Making--DUBBING #VT-542; CALL #6579 (VHS), 6580 (BETA)

   The narrator demonstrates some of the causes of winter, discusses the variety of forms taken by water vapor and explores differences between hoar frost, rime frost, glaze ice, snowflakes and sleet. The making of an ice tree is demonstrated.

SOCIAL SCIENCE

One Cubic Metre (15 min.)

This series attempts to visually explore three distinct biological environments by a detailed examination of one cubic metre of each. Program concepts include: sun is a primary energy source, physical and biological are tightly interwoven, organisms are adapted to specific environments, life forms are classified as producers, consumers and decomposers.

1. Beach Me!--DUBBING #VT-531

   The program takes a look at an inter-tidal beach on a rocky shore and explores some of the things that make it tick.

2. Pond - My Word!--DUBBING #VT-532

   The program is a study of the edge of a small pond.

3. Forest Floor-Everybody Out--DUBBING #VT-533

SOCIAL STUDIES

Communities West (30 min. each)

The purpose of this series is to increase knowledge of an interest in all parts of western Canada.

1. Carberry, Manitoba--DUBBING #VT-206; #1317 (16 mm film)
2. Gimli, Manitoba--DUBBING #VT-274; #1433 (16 mm film)
3. Steinbach--DUBBING #VT-103
4. Selkirk Today--DUBBING #VT-536
5. Atoms at the Whiteshell (Pinawa)--DUBBING #VT-204
6. Churchill on the Bay--DUBBING #VT-429; CALL #7240 (VHS), 7243 (BETA); #3660 (16 mm film)
7. St. Boniface, Manitoba--DUBBING #VT-530; CALL #7270 (VHS), 7273 (BETA); #1687 (16 mm film)
8. Outpost Manitoba--DUBBING #VT-609; CALL #7252 (VHS), 7255 (BETA); #3701 (16 mm film)
9. Winnipeg, O Winnipeg--DUBBING #VT-101; CALL #7282 (VHS), 7285 (BETA); #1086 (16 mm film)
10. Lakeshore Manitoba--DUBBING #VT-304; CALL #7246 (VHS), 7249 (BETA); #3582 (16 mm film)

    On a little-publicized strip of land abutting a central section of Lake Manitoba shoreline, residents have developed their own colourful ways of adapting to environment. Viewers learn of the early history of the area, of pioneer struggles, of projects, industries, and of some of the central characters which play on the stage of "Lakeshore" - Manitoba.

Know Your Province (15 min. each)

The series aims to acquaint students with features and activities of the province in which we live.

1. One Room School House--DUBBING #VT-474; #1529 (16 mm film)
2. Energy--DUBBING #VT-566; CALL #6727 (VHS), 6728 (BETA); #1473 (16 mm film)
3. Wild Rice--DUBBING #VT-567; CALL #6737 (VHS), 6738 (BETA); #1511 (16 mm film)
4. Commercial Fishing--DUBBING #VT-568; CALL #6741 (VHS), 6742 (BETA); 1477 (16 mm film)
5. The Forest--DUBBING #VT-569; CALL #6667 (VHS), 6668 (BETA); #1530 (16 mm film)
6. International Peace Garden--DUBBING #VT-570; CALL #6983 (VHS), 6984 (BETA); #1128 (16 mm film)

Lay of the Land (30 min. each)

The four western provinces, considered as one geological unit, cover more territory than most European countries and have more varied topographical features than almost any other single geographical unit in the world.

1. Entering the Gateway--DUBBING #VT-198; CALL # (N/A)

   Deals more specifically with shield, parkland, northern sea, lakes and forest, with limited reference to other features.

2. Wasteland ...Or?--DUBBING #VT-353; CALL # (N/A)

   Examines the origins of prairie, marsh and desert, the extent of manmade and natural changes; possible benefits of these geographical features and preservation and conservation plans and projects.

3. The Solid Lands--DUBBING #VT-199; CALL # (N/A)

   Rivers originating at the Great Divide flow to three oceans, creating the major watershed of the N.A. Continent and developing historical, economic and human patterns.

4. Western Cordillera--DUBBING #VT-354; CALL # (N/A)

   Stretching from the Rocky Mountain trench to the coastal shelf, the Western Cordillera is the topographical barrier between the continental interior and the Pacific Ocean.

Regions of Canada (30 min. each)

A major concept throughout the series is the interaction between man and his environment. Not only does his environment shape man's activities, but man's activities can and do change the nature of his total environment.

1. The Arctic--DUBBING #VT-86; CALL #7204 (VHS), 7207 (BETA)
2. The Prairies--DUBBING #VT-1; CALL #7210 (VHS), 7213 (BETA)
3. The Western Mountain Region--DUBBING #VT-42; CALL #7186 (VHS), 7189 (BETA)
4. The Atlantic Region--DUBBING #VT-18; CALL #7288 (VHS), 7291 (BETA)

Snakes (9 min.)--DUBBING #VT-879; CALL #5873 (VHS), 5872 (BETA); #1054 (16 mm film)

The program is an authentic presentation of "snakes" as they exist in a part of the Interlake area of Manitoba.

AGES 12-14

SOCIAL STUDIES

Know Your Province (15 min. each)

The series aims to acquaint students with features and activities of the province in which we live.

1. One-Room School--DUBBING #VT-474; #1529 (16 mm film)
2. Energy--DUBBING #VT-566; CALL #6727 (VHS), 6728 (BETA); #1473 (16 mm film)
3. Wild Rice--DUBBING #VT-567; CALL #6737 (VHS), 6738 (BETA); #1511 (16 mm film)
4. Commercial Fishing--DUBBING #VT-568; CALL #6741 (VHS), 6742 (BETA); #1477 (16 mm film)
5. The Forest--DUBBING #VT-569; CALL #6667 (VHS), 6668 (BETA); #1530 (16 mm film)
6. International Peace Garden--DUBBING #VT-570; CALL #6983 (VHS 6984 (BETA); #1128 (16 mm film)

Communities West (30 min. each)

The purpose of this series is to increase knowledge of an interest in all parts of western Canada.

1. Carberry, Manitoba--DUBBING #VT-206; #1317 (16 mm film)
2. Gimli, Manitoba--DUBBING #VT-274; #1433 (16 mm film)
3. Steinbach--DUBBING #VT-103

4. Selkirk Today--DUBBING #VT-536

5. Atoms at Whiteshell (Pinawa)--DUBBING #VT-204

6. Churchill on the Bay--DUBBING #VT-429; CALL #7240 (VHS), 7243 (BETA); #3660 (16 mm film)

7. St. Boniface, Manitoba--DUBBING #VT-530; CALL #7270 (VHS), 7273 (BETA); #1687 (16 mm film)

8. Outpost Manitoba--DUBBING #VT-609; CALL #7252 (VHS), 7255 (BETA); #3701 (16 mm film)

9. Winnipeg, O Winnipeg--DUBBING #VT-101; CALL #7282 (VHS), 7285 (BETA); #1086 (16 mm film)

10. Lakeshore Manitoba--DUBBING #VT-304; CALL #7246 (VHS), 7249 (BETA); #3582 (16 mm film)

On a little-publicized strip of land abutting a central section of Lake Manitoba shoreline, residents have developed their own colourful ways of adapting to environment. Viewers learn of the early history of the area, of pioneer struggles, or projects, industries, and of some of the central characters which play on the stage of "Lakeshore" - Manitoba.

AGES 14+

SOCIAL STUDIES

Energy (30 min. each)

This series investigates "energy" in global, rather than in nationalistic, terms.

1. The Consumption Assumption--DUBBING #VT-458; CALL # (N/A)

This program examines the flow of various kinds of energy in primitive societies, as well as the highly wasteful consumption in the industrial world.

2. Which Eco Is Loudest--DUBBING #VT-459; CALL # (N/A)

It is only within the last two decades that people have caught on to the fact that the resources of this planet are limited. This program examines some of the accepted trade-offs between what is economically desirable and what is ecologically sound.

3. Tilting at Windmills--DUBBING #VT-867; CALL # (N/A)

Some new and some old fangled ideas about converting natural forces into usable energy will be examined.

GENERAL

Happiness is Winter (10 min.)--DUBBING #VT-873; CALL # (N/A)

Glimpses of winter's beauty in swirl and drift and snow-laden trees, interspersed with the good spirit of winter activities - all portrayed over a background of suitable seasonal music.

Assiniboine Park Zoo (20 min. each)

The modern zoo is examined as both a place for entertainment and a centre for research and learning about ecology and conservation.

1. We're at Home!--DUBBING #VT-470; CALL #6669 (VHS), 6670 (BETA); #3637 (16 mm film)

   Canadian animals.

2. We're from Afar!--DUBBING #VT-871; CALL #6671 (VHS), 6672 (BETA); #3636 (16 mm film)

   Exotic animals.

Be Polar Bear Alert (Winnipeg): Manitoba Natural Resources. (1987). 1 videorecording (12 min.)--DUBBING #VT-1288; CALL #6675 (VHS), 6676 (BETA)

This program discusses the characteristics and habits of the polar bear. As well, it explains why Churchill has a polar bear problem, and it outlines what is being done by the Department of Natural Resources to deal with the situation. Lastly, the program provides good advice on what people who live in or visit the Churchill area can do to "Be Polar Bear Alert."

Audience level: Elementary, secondary, adult and teacher training.

Flight for Survival: the Migration of Birds (Edited Version) 1977. 1 videorecording (14 min.)--DUBBING #VT-0258; CALL #9187 (VHS); #1180 (16 mm film)

What causes birds to leave their breeding areas regularly each fall and return again in spring? This film explores the navigational and homing instincts of various migratory bird species. Viewers learn about different techniques used to map bird migration routes, and see recent experiments aimed at discovering how birds navigate over very long distances.

Audience level: Junior High.

Hypothermia Winnipeg: Manitoba Educational Television, c1986. 1 videorecording (8 min.): sd., col--DUBBING #VT-1260; CALL #6715 (VHS), 6716 (BETA)

Based on a Masters thesis in physical education, by Gordon Giesbrecht. Narrated by Gordon Giesbrecht.

A brief look at a physical education graduate's research into hypothermia, with cautionary advice for viewers on how to avoid and deal with hypothermia situations.

Audience level: Secondary grades, adults, teacher training.

Webbed Feet Winnipeg: Manitoba Dept. of Education, Production and School Broadcasts, 1979. 1 videorecording (20 min.): sd., col.--DUBBING #VT-171; CALL #6917 (VHS), 6918 (BETA)

This film shows the making of snowshoes, their uses, simple snowshoeing techniques and historical references to snowshoes.

Audience Level: Grades 4-adult.

For corresponding 16 mm films in the Library, see: FC 1299. For corresponding teacher's and student's notes in the Library, see: 685.363 M35.

FILMS

ABOUT FLOWERS (0263)

(National Film Board of Canada/Montreal/1965/1 reel/7 min./sound/color/16 mm) (Grades 4-6)

A nature lesson taught in a field of flowers. Designed for elementary science studies, the film answers questions that children ask. Two children playing in a meadow learn from an elderly neighbor how and why flowers attract bees, how fertilization occurs, how seeds are formed, how old plants die and new plants come to life.

ABOUT RIVERS (1415)

(Toronto/Visual Education Centre/1972/1 reel/11 min./sound/color/16 mm/The About Series) (Grades 4-6)

Presents the many ways people use rivers other than for recreation, such as fishing, swimming, boating and sailing. Shows the Thais living on their river in floating houses, farmers in dry regions diverting water from the nearest river for irrigation and lumbermen using rivers to transport logs. Discusses how major rivers such as the Nile in Africa and the Rhine in Europe are so crucial to the transportation of freight and travelers that they are considered super highways of commerce.

ABOVE THE TIMBERLINE: THE ALPINE TUNDRA ZONE (1324)

(Montreal/National Film Board of Canada/1960/1 reel/16 min./sound/color/16 mm) (Grades 4-12; adult)

Explores the upper regions of the Alpine tundra zone, showing close-up pictures of the flora and fauna which survive in extremes of altitude and cold. Explains that Alpine heights, with climatic conditions not like those of the Poles nurture a remarkable variety of vegetation, including bright flowers and plants with hairy or waxed leaves. Mountain goats, elk and bighorn sheep can be seen.

THE ACCESSIBLE ARCTIC (0193)

(National Film Board of Canada/Montreal/1967/1 reel/24 min./sound/color/16 mm) (Grades 4-12)

Illustrates how the rapid extention of roads, airways, railroads and communications has aided in the development of comfortable and varied living conditions in the Canadian north.

ADVENTURES (0264)

(Montreal/National Film Board of Canada/1967/1 reel/10 min./sound/color/16 mm) (Grades 4-6)

Presents the adventures of a young raccoon who journeys through the woods and encounters a rabbit, a bee, a tractor, a farmer, and a little boy.

ADVENTURES OF A BABY FOX: A STORY IN RHYME (1003)

(Stockholm/Svensk Filmindustri/1955/1 reel/13 min./sound/B & W/ 16 mm) (Grades 4-6)

Follows, with rhymed commentary, the antics of a small fox in his natural forest surroundings, showing his contacts with the insect, plant, bird and animal inhabitants of woods and lakeside. Designed to serve as a basis for creative writing and discussion.

THE AGING OF LAKES (0820)

(Chicago/Encyclopaedia Britannica Educational Corp./1971/1 reel/ 14 min./sound/color/16 mm) (Grades 7-12)

Traces the aging process of lakes, showing how man's interference with the environment causes critical changes in the natural ecology. Describes efforts to preserve and restore damaged lakes.

AIR AND WHAT IT DOES (0661)

(Chicago/Encyclopaedia Britannica Films/1962/1 reel/11 min./sound/ color/16 mm) (Grades 4-6)

The problem-solving approach gives children an opportunity to discover basic concepts about air.

THE AMERICAN WILDERNESS (1418)

(New York/NBC News/1971/2 reels/50 min./sound/color/16 mm) (Grades 10-12)

Points out that a technological society exerts great pressure on wild areas in terms of development, raw materials, and recreational use.

AMPHIBIANS (1573)

(Chicago/Coronet Instructional Films/1957/1 reel/11 min./sound/ color/16 mm)

Shows the similarities and differences in amphibians--frogs, toads and salamanders. Describes how and where they live, where they eat, and what changes they undergo in their development and metamorphosis. Follows the life cycle of the frog.

ANGIOSPERMS - THE FLOWERING PLANTS (0511)

(Encyclopaedia Britannica Films, inc./1962/1 reel/20 min./sound/ color/16 mm) (Grades 7-12)

Examines the structural and reproductive characteristics which distinguish the angiosperms from other plants. Combines animated drawings with timelapse photography to show the processes of pollination, formation of seeds and fruit, seed dispersal, and plant growth. With film guide.

THE ANIMAL MOVIE (0194)

(Ottawa/National Film Board of Canada/1966/1 reel/10 min./sound/ color/16 mm) (Grades 4-6)

Explores, through animation, the movement of animals, illustrating that man cannot physically compete with them.

ANIMAL TOWN OF THE PRAIRIE: PRAIRIE DOGS AND THEIR NEIGHBORS (0190)

(Encyclopaedia Britannica Films/1959/1 reel/10 min./sound/color/ 16 mm) (Grades 4-9); #9118 (VHS)

Shows how prairie dogs, with their tireless construction of burrows and their collective eating habits, reshape the environment to suit their own needs.

ANIMALS AT WORK IN NATURE (2636)

(Encyclopaedia Britannica Films, inc./1956/1 reel/10 min./sound/ color/16 mm) (Grades 4-6); #9119 (VHS)

How animals with highly-specialized body parts adapt to their environment. Close-up photography shows building of homes, raising of young and acquiring and storing of food. Scenes of a woodpecker drilling bark, a mosquito sucking blood from an arm and an oriole weaving her nest.

ANT WORLD (0053)

(New York/Pyramid Films/1972/1 reel/15 min./sound/color/16 mm) (Grades 4-12)

Documents the life cycle and lifestyle of the common ant and, using man as a parallel, explains how the class structure of certain ant colonies constitutes a society based on division of labor.

ARCHERY FUNDAMENTALS (1419)

(Hollywood/Bailey Films, inc./1961/1 reel/11 min./sound/color/16 mm) (Grades 7-12; adult)

Uses close-ups, slow motion and animation to give beginning archers basic knowledge about shooting equipment, proper methods of choosing and using it, and safety measures. Shows step-by-step procedures in preparing to shoot, sighting the target, and releasing the arrow.

AS TALL AS THE MOUNTAINS (0490)

(Adolph Coors Co./1964/1 reel/35 min./sound/color/16 mm) (Grades 7-12; adult)

Shows the wilderness activities at Outward Bound School, a 26-day experience which aims to develop character in young people through challenges in the form of demanding physical activities.

AT THE AUTUMN RIVER CAMP (3231)

(Education Development Center, in association with the National Film Board of Canada/1967/2 reels/60 min./sound/color/16 mm) (Grades 7-12; adult)

Life among the Netsilik Eskimos in late autumn shows Eskimos building their karmaks in the river valley, building an igloo, and beginning to make a sleigh. No narration.

AT THE CARIBOU CROSSING PLACE (3230)

(Education Development Center, in association with National Film Board of Canada/1967/2 reels/61 min./sound/color/16 mm) (Grades 7-12; adult)

The Netsilik Eskimos in early autumn, showing the men hunting caribou and the women working at the skins, cleaning sinews, and hanging them to dry. No narration.

AT THE SPRING SEA ICE CAMP (3233)

(Education Development Center, in association with National Film Board of Canada/1967/3 reels/81 min./sound/color/16 mm) (Grades 7-12; adult)

Portrays the traditional Eskimo life among the Netsilik Eskimos. Shows the men hunting seal through ice and hunting other animals, as two Eskimo families travel across the sea ice and build small igloos. No narration.

AT THE WINTER SEA ICE CAMP (3232)

(Education Development Center, in association with the National Film Board of Canada/1967/4 reels/135 min./sound/color/16 mm) (Grades 7-12; adult)

Shows scenes of Netsilik Eskimos of the Canadian Arctic at their winter sea ice camp. Includes scenes of the children at play. Shows the Eskimo building a large ceremonial igloo, hunting seal, participating in trials of strength for men and games for women, story-telling, juggling, engaging in the drum dance, and sharing seal meat. No narration.

ATONEMENT (0811)

(Montreal/National Film Board of Canada/1970/2 reels/51 min./sound/color/16 mm) (Grades 7-12; adult)

Shows how the Canadian Wildlife Service tracks down rare species of animals and birds in danger of extinction, and gives them a chance to live and multiply by transferring them to national parks.

BASIC ROCK CLIMBING (0679)

(Toronto/Moreland-Latchford Productions/1973/1 reel/14 min./sound/color/16 mm) (Grades 7-12)

An expert climber provides basic instruction on the principles of rock climbing. Also known as: Outdoor education: basic rock climbing.

BATTLE OF THE BUGS (1347)

(Los Angeles/Stanton Films/1977/1 reel/11 min./sound/color/16 mm) (Grades 7-12)

Shows ways in which aphids, a destructive family of insects, are destroyed by their natural enemies, which include the ladybug, the parasitic wasp, the syrphid fly, and the green lace-wing. Includes scenes of full life-cycles with view of the larva and the pupa.

THE BEACH: A RIVER OF SAND (2378)

(Chicago/Encyclopaedia Britannica Films/1965/1 reel/20 min./sound/color/16 mm) (Grades 10-12; adult); #9129 (VHS)

Describes the flow of a beach, and explains methods of measuring the movement of the sand. Investigates the origins and destinations of sand and the effects of human efforts to control the shape of a coast.

BE WATER WISE (1155)

(Montreal/Sun Life Assurance Co. of Canada/1963/1 reel/14 min./ sound/color/16 mm) (Grades 4-12)

Discusses basic aspects of water safety, emphasizing the proper method for floating and treading water and the proper procedures for rescue operations.

BEAVER DAM (0409)

(Montreal/National Film Board of Canada/1960/1 reel/16 min./sound/ color/16 mm) (Grades 4-6)

BEAVER MAKES A COMEBACK (2571)

(Ottawa/Canada, Department of Citizenship and Immigration/1953/ 1 reel/16 min./sound/color/16 mm) (Grades 4-12)

An account of a government-sponsored beaver conservation project. Contrasts the economic plight of the Indian population, when the beaver had been all but exterminated, with the improved living conditions after the area was restocked. Information in this film is dated, although it is still of value for educational purposes.

BEAVERS (4530)

(Encyclopaedia Britannica Educational Corporation/1982/1 reel/ 15 min./sound/color/16 mm) (Grades 4-6)

Examines the year round life of the beaver charting the progression of the seasons in terms of the beaver's activities. Shows a new litter of beaver kits and their lodge interior and discusses the beaver's physical characteristics and adaptation to its watery world.

BICYCLING ON THE SAFE SIDE (0728)

(Santa Monica/Ramsgate Films/1974/1 reel/16 min./sound/color/16 mm (Grades 4-6))

Uses the popular ten-speed bicycle in explaining and demonstrating safe riding techniques, traffic laws, potential bicycling hazards, maintenance tips and ways to guard against bicycle theft.

BIRD HOMES (0732)

(Encyclopaedia Britannica Films, inc./1957/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

Shows different kinds of bird homes, the habitats in which they can be found, and the types of materials used in nest building.

BIRD NEIGHBOURS (1215)

(Ottawa/Department of Northern Affairs and Natural Resources, Canada/1955/1 reel/10 min./sound/color/16 mm) (Grades 4-9)

Studies familiar Canadian birds in their natural surroundings. Colour closeups focus on the birds' appearance and activity. Demonstrates how to build bird houses and attract birds.

BIRDS ARE INTERESTING (2577)

(Encyclopaedia Britannica Films, inc./1950/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

Deals with the classification of birds and the evolutionary variations in feet, bill and wing structures for purposes of adaptation. Discusses migration among birds, speculates upon its cause, and compares routes and distances of various species.

BIRDS OF CANADA (3583)

(National Film Board of Canada/1951/1 reel/9 min./sound/color/16 mm) (Grades 4-12)

The pileated woodpecker, yellow-bellied sapsucker and common loon are objects of study.

BIRDS OF OUR STORYBOOKS (2697)

(Chicago/Coronet Instructional Media/1978/1 reel/9 min./sound/color/16 mm) (Grades K-3)

The physical traits, calls and habits of the robin, cardinal, crow, owl, bluejay, sparrow, woodpecker, wren and seagull are integrated with poems and stories to encourage closer observation and reading. With guide.

BIRDS ON A SEASHORE (0840)

(Toronto/Visual Education Centre/1970/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

Film records bird activities in the world's largest bird colony on the Mainland and off-shore islands of Peru and Chile. No narration.

BOATING AND GOOD SENSE (0656)

(Ottawa/Crawley Films/1963/1 reel/14 min./sound/color/16 mm) (Grades 7-12; adult)

Demonstrates the proper method of equipping, starting and handling a power boat. Discusses safe practices for the water skier and the person handling the boat.

BOAT TRIP (2909)

(Los Angeles/Educational Horizons/1970/1 reel/13 min./sound/color/16 mm) (Grades K-6)

Describes basic types of ships, locks and waterways, as well as ship and geographic terms encountered by an eight-year-old girl and her grandfather, a sea captain, as they deliver a new boat to a distant harbor.

A BOY'S JOURNEY THROUGH A DAY (2991)

(Chicago/Coronet Instructional Films/1970/1 reel/16 min./sound/color/16 mm) (Grades 4-9)

A language arts film which follows a boy as he fishes, explores, and day-dreams in the woods. Without narration.

BROWN BEARS 2nd ed. (2208)

(Coronet Instructional Films/1981/1 reel/13 min./sound/color/16 mm) (Grades 3-9)

Tells about the habits of polar bears and American black bears. Shows Alaskan brown bears swimming in a stream, catching and eating salmon, fighting over fish and teaching cubs how to swim.

BUFFALO: AN ECOLOGICAL STORY (0837); #9136 (VHS)

(Encyclopaedia Britannica Films, inc./1972/1 reel/14 min./sound/color/16 mm) (Grades 7-12)

Documents the buffalo's struggle for survival from the time when vast herds ranged across the American continent, through the mass slaughters of the 1800's, to the successful restoration of these animals in the 20th century. Scenes of buffalo in their natural habitat reveal their physical traits, behaviour and unpredictable temperament. Although attempts to domesticate the buffalo have failed, efforts to save them from extinction have succeeded, and, hopefully, the buffalo lesson will serve as a model in the attempt to save other endangered species.

BUILDING A KAYAK (0640)

(Education Development Center in association with National Film Board of Canada/1967/2 reels/65 min./sound/color/16 mm) (Grades 4-12; adult)

It is July, and time to build a kayak. Two men assemble scraps of wood, bone, sealskin and sinews. The woman helps by cutting thongs and scraping skins. A man harpoons a fish and all stop to eat.

BUSH FIRST AID (3318)

(Toronto/Moreland-Latchford Productions/1967/2 reels/20 min./sound/color/16 mm) (Grades 4-12)

Shows how to assemble a practical first aid kit and how to use it for almost any emergency. Also shows how to treat an accident victim in the bush using only the things wich are readily available.

BY MAP AND COMPASS (1314)

(Toronto/Crawley Films/1957-1961/1 reel/27 min./sound/color/16 mm) (Grades 4-12)

Mr. Wallace and his son Gary use a topographic map and a protractor compass as they enjoy a fishing and hiking trip. Includes a summary of the techniques of using a map and a compass.

BY THE SEA (0822)

(Pasadena, Calif./Arthur Barr Productions/1971/1 reel/14 min./ sound/color/16 mm) (Grades 4-12)

Shows that through the eye of the camera, the land, the sea and the sky blend into a composite visual experience and that the many facets of nature may be discovered in a single setting.

CAN THE EARTH PROVIDE? (2632)

(Montreal/National Film Board of Canada/1961/1 reel/28 min./sound/ B & W/16 mm) (Grades 10-12; adult)

Surveys the world agricultural scene and the role that science might be expected to play in future world food production. Shows examples of intensive cultivation and of improvements in agricultural methods, but questions whether, even with all these measures, the earth can provide food for a growing population.

CANADA'S PRAIRIE PROVINCES (2221)

(Coronet Instructional Media/1973/1 reel/14 min./sound/color/ 16 mm) (Grades 4-9)

Provides a geographic introduction to the Canadian prairie provinces, including a look at the historic and ethnic backgrounds of their people, and the traditional occupations of farming, cattle raising and lumbering.

CARIBOU OF NORTHERN CANADA (0353)

(Ottawa/Department of the Environment, Canadian Wildlife Service/1971/1 reel/13 min./sound/color/16 mm) (Grades 4-12)

Examines the life and habitat of the caribou of northern Canada, including information on its feeding, migratory and behavioral characteristics.

THE CAVE COMMUNITY (0102)

(Encyclopaedia Britannica Films/1960/1 reel/13 min./sound/color/ 16 mm) (Grades 7-12; adult)

Illustrates how the study of plant and animal life in the relatively unchanging environment of the cave community provides biologists with important data for understanding the adaption and evolution of species.

THE CHANGING FOREST (0681)

(National Film Board of Canada/1958/1 reel/19 min./sound/color/16 mm) (Grades 7-12)

The ecology of a deciduous forest area of the type found along the southern fringes of the Laurentian Shield. Shows the forest as an integrated community of living things, both plant and animal.

CHOOSING A LEADER (0502)

(National Film Board of Canada/1957/1 reel/9 min./sound/B & W/16 mm) (Grades 7-12)

Explores the problem of how a group chooses a leader wisely. Revolves around a group of teen-agers who face the possibility of getting lost while hiking through the woods. Encourages the film audience to discuss the bases on which leaders should be chosen.

CITIES IN CRISES - A MATTER OF SURVIVAL (0024)

(Ray Witlin and Universal Education and Visual Arts/1970/1 reel/18 min./sound/color/16 mm) (Grades 7-12)

Examines causes, effects and possible solutions to the pollution problem in the areas of air, water and land.

CLIMATE AND SEASONS (0080)

(Coronet Instructional Media/1973/1 reel/10 min./sound/color/16 mm) (Grades 4-6)

Explores variations in the four seasons in a survey of ideas about climate and depictions of a variety of seasonal activities. With study guide.

COLD (0847)

(California/Films-West inc./1969/1 reel/11 min./ sound/color/16 mm) (Grades 4-9)

Relates a child's idea of cold to basic concepts of heat energy. Discusses how cold can affect simple, everyday items, and points out the many uses of cold in the community.

COMMERCIAL FISHING (1477); #6741 (VHS), #6742 (BETA)

(Winnipeg/Manitoba Department of Education/1975/1 reel/15 min./ sound/color/16 mm) (Grades 4-9)

This film takes viewers to Lake Winnipeg to follow the activities of commercial fishermen as the seasons change.

THE CONIFEROUS FOREST BIOME (1450); #9151 (VHS)

(Chicago/Encyclopaedia Britannica Educational Corporation/1968/ 1 reel/15 min./sound/color/16 mm) (Grades 4-12; adult)

Describes the conditions of plant and animal life in the northern coniferous forest, explaining how unfavorable conditions influence development. With film guide.

CONSERVATION AND BALANCE IN NATURE (3813)

(Chicago/International Film Bureau inc./1963/1 reel/18 min./sound/ color/16 mm) (Grades 7-12)

Investigates balance in natural ecological systems as related to the question, what is man doing to his environment? Shows that interrelation of organisms in the food web involves a delicate balance; pictures a wide variety of animal adaptations and discusses their significance to the community balance. Explains that adaptation is measured in terms of reproductive success. Examines critically the role of man in changing the existing balance in biological communities.

CROSS COUNTRY SKI TECHNIQUE (0702)

(Quebec/Douglas Sinclair Film Productions/1973/1 reel/25 min./ sound/color/16 mm) (Grades 7-12; adult)

Presents a variety of techniques for successful cross-country skiing.

CROSS COUNTRY SKIING (0195)

(Montreal/National Film Board of Canada/1970/1 reel/6 min./sound/ color/16 mm) (Grades 7-12)

Portrays the interior exhiliaration and the feeling of impending flight of cross-country skiing.

A CROWDED WILDERNESS (0701)

(National Film Board of Canada/1972/1 reel/9 min./sound/color/16 mm) (Grades 10-12; adult)

Deals with the conservation of wilderness in Canada.

DEATH OF A LEGEND (0690)

(Montreal/National Film Board of Canada/1971/2 reels/50 min./sound/color/16 mm) (Grades 7-12)

Examines the nature and plight of the wolf and relates it to the plight of other species of North America wildlife that have fallen afoul of predatory man and his technology. Includes footage of the wildlife of Canada's North, including the caribou, deer and moose.

THE DEER AND THE FOREST: A STORY WITHOUT WORDS (0828)

(Budapest/Hungaro Film/1968/1 reel/16 min./sound/color/16 mm) (Grades 4-12; adult)

A visual story of deer and other animals as they move through the changing seasons in the forests of Hungary. With guide affixed.

DEFENSIVE CYCLING (2734)

(Winnipeg, Manitoba/Bortnick Film Productions/1976/1 reel/16 min./sound/color/16 mm) (Grades 4-9)

Follows David, a seven-year-old beginner, and Linda, an experienced 13-year-old cyclist, as they leave their driveway, cycle through town and return home. Stresses hand signals, explains the meanings of traffic lights and signs, shows the proper way to make right and left hand turns, demonstrates correct intersection laws and procedures, covers traffic and safety rules. Emphasizes that defensive driving means looking ahead, learning how to recognize dangerous situations and avoiding accidents.

DESCRIBING WHAT WE SEE (3145)

(Los Angeles/S-L Educational Film Productions/1969/1 reel/12 min./sound/color/16 mm) (Grades 4-12; adult)

Utilizes the sights and sounds of the world around us to give the student help in describing what is seen and heard. Presents two situations to give the young writer a chance to describe after the film is over. With teacher's guide affixed.

THE DESERT (3372)

(Encyclopaedia Britannica Films, inc./1962/1 reel/22 min./sound/color/16 mm) (Grades 4-12)

Discusses the desert biome, with emphasis on geological location, the cause of formation, the temperate conditions and consequent aridity, dust storms, and rains. Illustrates how various desert plants and animals adapt to the aridity of their environment. With film guide.

THE DESERT (1892)

(Pasadena, Calif./Arthur Barr Productions/1965/1 reel/10 min./sound/color/16 mm) (Grades 4-12)

An overview of desert life in southwestern North America. Notes the adaptations for survival in dry regions made by typical plants, animals and birds of the desert - cactus, creosote bush, palo verde tree, ocotillo, Joshua tree, wildflowers, the ground squirrel, kangaroo rat, lizard, rattlesnake, tortoise, roadrunner, cactus, wren, oriole and dove.

DISTRESS SIGNALS: PART 1 (3817)

(Toronto/Moreland-Latchford Productions/1967/1 reel/10 min./sound/color/16 mm) (Grades 4-9)

Explains that fire and smoke are the most effective distress signals. Shows in detail how to construct weatherproof signal beacons.

DISTRESS SIGNALS: PART 2 (3816)

(Toronto/Moreland-Latchford Productions/1967/1 reel/10 min./sound/color/16 mm) (Grades 4-9)

More sophisticated forms of international signals are shown that include telling rescuers the number of people and the extent of any injury.

DISTRIBUTION OF PLANTS AND ANIMALS (1469)

(Encyclopaedia Britannica Films, inc./1963/1 reel/16 min./sound/color/16 mm) (Grades 10-12; adult)

Defines and illustrates the factors that determine how plants and animals are distributed throughout the world. Uses detailed distribution maps to explain how the dispersal of the species of plant or animal is limited by its rate of increase, its ability to disperse, and its ability to surmount physical and biological barriers. With guide.

DRESS FOR HEALTH (0541)

(Encyclopaedia Britannica Films/1957/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

Tells how children should select clothing according to the weather, for example, woolen clothes in winter and cotton in summer. Shows how the thermometer and daily weather reports can help them to decide. Information in this film is dated, although it is still of value for educational purposes.

DRESSING FISH (3148)

(Toronto/Moreland-Latchford Productions/1967/1 reel/10 min./sound/color/16 mm) (Grades 4-12)

Shows how to cut fillets from fish and how to "gut and gill" them for packing in ice. Efficiency and safety are stressed.

DROWNPROOFING (1520)

(Toronto/Moreland-Latchford Productions/1967/1 reel/10 min./sound/color/16 mm) (Grades 4-12)

Shows, with detailed underwater photography, how even non-swimmers can stay afloat and travel in the water for hours.

THE EARTH IN CHANGE: THE EARTH'S CRUST (3073)

(Encyclopaedia Britannica Films/1961/1 reel/16 min./sound/color/16 mm) (Grades 4-12)

Discusses the changing land features of the earth, describing and illustrating the ways in which ice, wind and water act to wear away the surface of the earth, and how sedimentation, the action of volcanoes and earthquakes, and other forces help to build it up. With guide.

EARTH IN MOTION (2106)

(Encyclopaedia Britannica Films, inc./1936/1 reel/12 min./sound/B & W/16 mm) (Grades 7-12; adult)

Portrays the earth as an astronomical body and discusses its relation to the sun and its motion. Presents evidence of the earth's sphericity, and its axis rotation, its revolution about the sun, and the inclination of its axis. Permits simulated observation of the earth from the stratosphere, of earths and stars in motion, and of the earth's orbit movement, explaining the causes of night and day and of seasons.

THE EARTH'S MOVEMENTS (2036)

(Chicago/Coronet Instructional Films/1967/1 reel/10 min./sound/color/16 mm) (Grades 4-9)

Uses animation, models and live action to show four movements of the earth. Depicts revolution and rotation and explains how these factors account for day and night, time differences and the changing seasons. Illustrates the precession of the equinoxes and galactic rotation.

THE EARTH: ITS STRUCTURE (2134)

(Chicago/Coronet Instructional Films/1982/1 reel/10 min./sound/color/16 mm) (Grades 4-12)

Animated drawings present the most widely accepted theory of the formation of the earth and the solar system. Uses simple sketches, clear shots of various geological phenomena and laboratory demonstrations to examine the structure of the surface and interior of the earth: core, mantle, and crust, discussing the latter region in detail.

EARTHWORMS (0930)

(Universal Education and Visual Arts/1957/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

Shows the earthworm's physical adaption to underground life, their physical development and eating habits.

THE EDGE OF THE BARRENS (0539)

(National Film Board of Canada/1963/1 reel/14 min./sound/color/16 mm) (Grades 4-12)

An ecological study of the Arctic tundra stretching across Canada between the treeline and the Arctic Ocean. Shows the tenacity of life in this wilderness where danger is constant.

EDIBLE PLANTS IN SUMMER (0261)

(Toronto/Moreland-Latchford Productions/1967/1 reel/8 min./sound/color/16 mm) (Grades 4-12)

There are few poisonous plants and the viewer will be surprised at the great abundance of palatable food that is available in the wilderness areas of North America. Film summary included.

AN EGG BECOMES A CHICK (1865)

(Coronet Instructional Films/1972/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

Drawings by children and microscopic scenes aid a teacher and two students in sharing questions, ideas and information about chicken eggs from fertilization to hatching.

EMERGENCY COMPASSES (0470)

(Toronto/Moreland-Latchford Productions/1968/1 reel/12 min./sound/color/16 mm) (Grades 4-12)

Demonstrates how to determine direction by means of a watch, twigs or the stars, if you are out in the wilderness without a compass. Includes other camping tips.

THE ENDURING WILDERNESS (2988)

(National Parks Branch, Canada Department of Northern Affairs and National Resources, Ottawa/National Film Board of Canada/1963/1 reel/27 min./sound/color/16 mm) (Grades 7-12; adult)

A photographic tour of the national parks of Canada from the mountains of British Columbia to the sea swept shores of Newfoundland. Describes the purpose of Canada's park conservation program, and the unspoiled lakes and forests which result.

ENERGY AND WORK (3746); #9175 (VHS)

(Encyclopaedia Britannica Films/1961/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

Simple experiments and visual experiences explain that energy is neither created nor destroyed, but simply changed from one form to another. Illustrates ways in which energy can be stored and the steps to change potential energy into mechanical energy for doing work. With film guide.

THE ENERGY DILEMMA (2986)

(Toronto/adapted by Visual Education Centre/1973/1 reel/18 min./sound/color/16 mm) (Grades 7-12; adult)

Surveys the resources of energy presently being used and the possibility that they may be exhausted within a decade. Explores the possibilities of new sources for energy, including solar and tidal power.

ENERGY FROM THE SUN (3127); #9176 (VHS)

(Chicago/Encyclopaedia Britannica Educational Corp./1980/1 reel/18 min./sound/color/16 mm) (Grades 7-12; adult)

An introduction to the new and complex field of solar technology. The potential importance of solar energy in an age of dwindling fossil fuel supplies is emphasized. In addition, visits to several sites in the U.S. where both solar energy research and use are in progress are undertaken. Indicates some of the problems that must be solved before solar energy can be competitive, practically and economically.

EROSION: LEVELING THE LAND (1348); #9178 (VHS)

(Encyclopaedia Britannica Films, inc., in cooperation with the American Geological Institute/1964/1 reel/14 min./sound/color/16 mm) (Grades 4-12)

Uses laboratory demonstrations and natural photography in a study of the processes of weathering, erosion and deposition of rock materials. Shows how the constant movement of rock debris from high places toward the sea tends to level the land; explains how scientists find evidence of the leveling process. With guide.

THE EVERGLADES: CONSERVING A BALANCED COMMUNITY (3014)

(Chicago/Encyclopaedia Britannica Educational Corp./1968/1 reel/11 min./sound/color/16 mm) (Grades 7-9)

Demonstrates that conservation must be considered in any plans for expanding communities. Shows how water requirements of new residential areas in Florida are endangering many species of wildlife in Everglades National Park. With film guide.

5000 MILES (3810)

(National Film Board of Canada/1965/1 reel/19 min./sound/color/16 mm) (Grades 4-12; adult)

A travel film designed to encourage Canadians and Americans to vacation in Canada via the Trans-Canada highway, which stretches from coast to coast.

FARM ANIMALS (0536)

(Encyclopaedia Britannica Films, inc./1957/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

Follows a farmer through a typical day of caring for his animals. Farm scenes include a newborn calf and colt, pigs and lambs nursing and a goat and kid and sheep.

FARM ANIMALS IN RHYME (0687)

(Chicago/Coronet Instructional Films/1968/1 reel/11 min./sound/color/16 mm) (Grades K-3)

Uses rhymes to survey a farm and introduce familiar farm animals, the sounds they make and the things they do.

FINDING OUT ABOUT ROCKS (0486)

(New York/United World Films/1961/1 reel/14 min./sound/color/16 mm) (Grades K-6)

Shows in step-by-step sequences how the land evolved from the great mass of rock and water that was the early planet. Illustrates how the pounding action of the surf, freezing temperatures, shifting winds and simple plants can combine with gravity to form soil.

FIRE MAKING AND SHELTERS (3345)

(Toronto/Moreland-Latchford Productions/1967/1 reel/10 min./sound/color/16 mm) (Grades 4-12)

Demonstrates the steps involved in building a shelter and a fire in the woods, and describes the best locations and the required materials.

FIREBUILDING AND COOKING (3562)

(Saskatoon, Saskatchewan Institute for Applied Arts and Sciences/1973/1 reel/15 min./sound/color/16 mm) (Grades 4-12)

Illustrates the collecting of tinder, kindling and fuel. The proper method of building the cooking fire is shown. A recipe is given for making bannock, and the correct preparation is shown. An Indian method for cooking fish on a stick and a cranberry pie complete the outdoor meal.

FIRST AID ON THE SPOT (1998)

(Encyclopaedia Britannica Educational Corporation/1980/1 reel/9 min./sound/color/16 mm) (Grades 4-9)

Demonstrates procedures to be aware of in a variety of accident situations such as: cuts, burns, and accidental poisoning. Stresses when and how to seek professional help, and describes the role of emergency medical technicians in providing emergency first aid.

FISHING AT THE STONE WEIR (0645)

(Education Development Center in association with National Film Board of Canada/1967/2 reels/60 min./sound/color/16 mm) (Grades 7-12; adult)

Portrays the traditional Eskimo life of the Netsilik Eskimos in the summer when the tundra is bare. Shows the family attending to the fishing as the fish move upstream, pointing out that each family member has a particular duty. Natural sounds, no narration.

FLIGHT IN WHITE (2573)

Montreal/National Film Board of Canada/1969/1 reel/15 min./sound/color/16 mm) (Grades 4-9)

Shows winter sports activities and winter scenery of Banff and Jasper National Parks in the Canadian Rockies.

FLOWERS AT WORK (2572)

(Encyclopaedia Britannica Films, inc./1956/1 reel/11 min./sound/color/16 mm) (Grades 7-12; adult)

Animation and time-lapse photography describe the structure of flowers and show how they function as reproductive organs. Discusses pollination in composite flowers, self-pollination and pollination by wind and insects. Points out how man has improved commercial floriculture.

THE FOREST TENT CATERPILLAR (2550)

(Montreal/National Film Board of Canada/1955/1 reel/18 min./sound/color/16 mm) (Grades 4-9)

Close-up camera studies illustrate the life cycle of the forest tent caterpillar and show the damage it causes annually to our deciduous forests.

THE FOREST WATCHERS (2317)

(Ottawa/Department of the Environment of Canada/1975/1 reel/25 min./sound/color/16 mm) (Grades 7-12; adult)

Demonstrates how remote sensing techniques are used in order to take inventory of Canada's forest resources.

FOSSILS: FROM SITE TO MUSEUM (1999)

(Coronet Instructional Films/1971/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

Describes the process of fossil formation in a strip coal mine and demonstrates how fossils are prepared for study and exhibited at the museum.

FRESHWATER WORLD (1858)

(Montreal/Fisheries and Marine Services of Canada/1974/1 reel/24 min./sound/color/16 mm) (Grades 7-12; adult)

Describes the operation of the Freshwater Institute of the Fisheries Research Board, Environment Canada.

THE FROG (2799); #9190 (VHS)

(Encyclopaedia Britannica Films/1957/1 reel/11 min./sound/color/16 mm) (Grades 4-12)

Shows the complete life cycle of the frog and depicts structural characteristics.

FROSTBITE AND SNOWBLINDNESS (4001)

(Toronto/Moreland-Latchford Productions, Ltd./1968/1 reel/11 min./sound/color/16 mm) (Grades 7-12; adult)

Discusses in detail frostbite and snowblindness and covers prevention, recognition, causes and treatment of both conditions.

FUN ON THE WILD RIVER (2588)

(Washington, D.C./National Geographic Society/1970/1 reel/10 min./sound/color/16 mm) (Grades 4-9)

A family lives in touch with nature on the Salmon River in Idaho where they enjoy a change of pace in an area nearly free from pollution. Shows the Craighead family journeying down the white water Salmon River.

FUNDAMENTAL CANOEING (0361)

(Toronto/Moreland-Latchford Productions/1967/1 reel/11 min./sound/color/16 mm) (Grades 7-12)

Shows how to launch, paddle, portage, load and enter a canoe safely. Illustrates what to do if a canoe capsizes.

FUNGI (1338)

(Encyclopaedia Britannica Films, inc./1960/1 reel/15 min./sound/color/16 mm) (Grades 7-12)

Uses time-lapse photography, photomicrography and animation to show how fungi grow and how they get their food; their importance as converters of dead matter; their economic significance as agents in food processing; and in their role in causing disease in plants and animals.

FUR TRAPPER OF THE NORTH (0931)

(Ralph Bryenton and Encyclopaedia Britannica Films, inc./1951/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

Portrays the life of the fur trapper in the northern wilds. Shows his summer and early autumn preparations, the beginning of trapping in late autumn, continuing through the winter and the return of spring, the break-up of ice, the end of trapping, and the distribution of the pelts. Information in this film is dated, although it is still of value for educational purposes.

GARDENS FOR EVERYONE (2783)

(Los Angeles, Calif./Educational Horizons Films/1966/1 reel/11 min./sound/color/16 mm) (Grades K-9)

Shows scenes of a natural garden in a national park, a planned garden in a city park, a community garden, a school garden, a family garden, and a child's personal garden.

GEOGRAPHY OF YOUR COMMUNITY (2375)

(Chicago/Coronet Instructional Films/1954/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

A young boy who studies his community and a map of the area discovers that the geography of the area affects its industries, farmlands, residential areas and highways.

GHOSTS OF A RIVER (2961)

(Montreal/National Film Board of Canada/1966/1 reel/20 min./sound/color/16 mm) (Grades 4-12)

Describes graphically the Columbia river as it exists now. Points out that the river is to be dammed up to form a power reservoir for British Columbia and the United States. Information in this film is dated, although it is still of value for educational purposes.

GLACIATION (2962)

(Montreal/National Film Board of Canada/1965/1 reel/11 min./sound/color/16 mm) (Grades 7-12; adult)

Demonstrates how the processes which form glaciers change the landscape and affect ecology after the glacier disappers. Explains the consequences of past glaciation on populations living where a glacier has been.

GLACIER ON THE MOVE (0008); #9194 (VHS)

(Encyclopaedia Britannica Educational Corp./1973/1 reel/11 min./sound/color/16 mm) (Grades 7-12; adult)

A study of the rhythm of glacial movement in summer and winter. Experiments show the effects of gravity, pressure and temperature on ice formation.

THE GOLDEN EAGLE - NO NATURAL ENEMY (2897)

(Shoshoni Productions/1972/1 reel/22 min./sound/color/16 mm) (Grades 7-12; adult)

Points out that the golden eagle, a symbol of virtue and courage, has decreased in number in North America to less than 10,000 due to the actions of man, since the bird has no natural enemies.

THE GRASSLANDS (2609)

(Encyclopaedia Britannica Films/1962/1 reel/17 min./sound/color/16 mm) (Grades 7-12)

Illustrates the evolution of the present-day grasslands. Offers an overview of grassland communities of the world, including the pampas of Argentina and savanna of Africa, and stresses the fact that grass is a basic source of energy. With film guide.

THE GREAT AMERICAN GOOSE EGG CO., OF CANADA LTD. (2679)

(Toronto/Reasons Associates/1971/1 reel/10 min./sound/color/16 mm) (Grades 10-12; adult)

A satire on technology and industry in which the goose egg is symbolic of our natural resources. Depicts the forward march of civilization trodding over nature which is struggling to survive.

THE GREAT BARRIER REEF (1597)

(New York/NBC News Films in cooperation with the National Academy of Sciences/1970/2 reels/53 min./sound/color/16 mm) (Grades 7-12; adult)

Studies the dangers of the ecosystem of the Australian Barrier Reef. Examines the crown of thorns, a variety of starfish which eats live coral, is multiplying and threatens to destroy the reef. Discusses the role of the reef in the balance of nature.

THE GREEN CITY (1152)

(Finley Stuart, inc./1963/1 reel/23 min./sound/color/16 mm) (Grades 7-12; adult)

Shows how green and open space is being gobbled up by the urbanizing process. Demonstrates how development can take place without excessive destruction. Describes man's changing environment and foretells the consequences if this change is permitted to take place without careful planning.

GRIZZLY! (0538)

(Washington/National Geographic Society/1967/2 reels/52 min./ sound/color/16 mm) (Grades 4-12; adult)

A study of the habits and habitat of the North American grizzly bear, using electronic equipment.

GROUP HUNTING ON THE SPRING ICE (6038)

(Cambridge, Mass./Education Development Center in association with National Film Board of Canada/1968/3 reels/96 min./sound/color/ 16 mm) (Grades 7-12; adult)

Portrays the traditional Eskimo life of the Netsilik Eskimos in late June when much of the land is bare. Shows a man making a bow from bone and sinews and a woman doing her chores. Shows men going out on the sea ice to watch for seals. Without narration.

THE GROWTH OF PLANTS (2729); #9203 (VHS)

(Encyclopaedia Britannica Films/1962/1 reel/20 min./sound/color/ 16 mm) (Grades 7-12)

Uses time-lapse photography and animation to show how plant cell division, elongation and differentiation assure both stem and root growth. Illustrates the xylem and phloem-making function of the cambium. Presents experiments dealing with the effect of hormones on cell division and elongation, and the effects of certain stimuli - gravity and light - on plant growth.

GYMNOSPERMS (1242)

(Encyclopaedia Britannica Films/1961/1 reel/16 min./sound/color/16 mm) (Grades 7-12; adult)

Explains that gymnosperms were the first of the seed plants and that the most common gymnosperms today are the conifers, of which pines, firs, spruces and redwoods are familiar examples. Uses animation and time-lapse photography in tracing the life cycle of the pine. With teacher's guide.

HIGH ARCTIC: LIFE ON THE LAND (1133)

(Montreal/National Film Board of Canada/1959/1 reel/22 min./sound/color 16 mm) (Grades 4-9)

An ecological study of plant and animal life on the Queen Elizabeth Islands in the Canadian Arctic. Shows the musk-ox, lemming, Arctic hare, poppies, fire weed and other forms of plant life as part of an evolution that began in pre-history and continues today.

HOW ANIMALS HELP US (1127)

(Lawrence, Kan./Centron Corporation, inc./1956/1 reel/11 min./sound/color/16 mm) (Grades K-9)

Discusses the many ways in which animals are useful to man.

HOW BIRDS HELP US (1421)

(Chicago/Coronet Instructional Films/1957/1 reel/10 min./sound/color/16 mm) (Grades 4-6)

A young boy observes that birds help us by providing us with food, destroying harmful insects and rodents, eating weed seeds, and giving us pleasure with their bright colors and songs.

HOW NATURE PROTECTS ANIMALS (2645)

(Chicago/Encyclopaedia Britannica Films, inc./1959/1 reel/12 min./sound/color/16 mm) (Grades 4-9)

Examines the phenomena of defensive adaptation of various animals to different environments. Portrays representative types in their natural habitats and illustrates different kinds of protection, including speed, mimicry, coloration, armour and secluded homes.

HOW PLANTS REPRODUCE (2033)

(Lawrence, Kan./Centron Corporation /1957/1 reel/11 min./sound/color/16 mm) (Grades 4-12)

Combines photography and animation to visualize and explain the main parts of a plant and its flower, how a typical flower is pollinated and fertilized and how the plant grows new seeds to keep the life cycle of the plant unbroken.

HOW TO BUILD AN IGLOO (2760)

(Montreal/National Film Board of Canada/1949/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

A demonstration of igloo-building in Canada's Far North, showing how the site is selected and how blocks of snow are used to make a snug shelter in only an hour and a half. As the camera follows each stage, the commentary explains the process.

THE IMPORTANCE OF RIVERS (1613)

(Hollywood, Calif./AV-ED Films/1959/1 reel/12 min./sound/color/16 mm) (Grades 4-12)

Discusses the importance of rivers, explaining how they have helped to shape the surface of the earth, to drain the land of surplus water, to supply water for drinking and for industrial and municipal use, to serve as boundaries, to provide transportation, to supply food and power, to modify the climate, to help clean the air, to build up the land, and to sustain wildlife.

IN ONE DAY (2959)

(Ottawa/Canada, Department of Transport/1967/1 reel/18 min./sound/color/16 mm) (Grades 7-12)

Describes how Canada's Meteorological Service functions, including the services that it provides to Canadians in all walks of life.

INSECT COLLECTING (3046)

(Los Angeles/Pat Dowling Pictures/1960/1 reel/14 min./sound/color/16 mm) (Grades 4-12)

Points out that collecting specimens is an important part of any study of insect life. Shows common and some uncommon terrestrial and aquatic insects in close detail and tells where to look and how to capture specimens. Describes methods of collecting which include netting, beating of host plants, night collecting, investigating dead parts of trees, using the Berlese funnel to procure microscopic specimens, and aquatic methods.

INSECT FOODS (2371)

(Los Angeles/Pat Dowling Pictures/1959/1 reel/14 min./sound/color/16 mm) (Grades 7-12; adult)

Shows what and how insects eat, explaining the importance of the feeding habits of such insects as the katydid, grain beetle, polyphemus moth, termite, flea, praying mantis, and antlion. Explains that every plant and animal provides food for some kind of insect. Presents close-up views of larval, pupal and adult stages of life as they apply to feeding.

INSECTS (1302)

(Chicago/Encyclopaedia Britannica Films, inc./1953/1 reel/10 min./sound/color/16 mm) (Grades 4-12)

Enumerates characteristics of insects. Shows reproductive and growth processes, structural characteristics and eating habits typical of each of the five classes within the insect world. Describes the constructive and destructive habits of a variety of insects and the natural and man-made controls which prevent unlimited insect multiplication.

INTRODUCING INSECTS (BUTTERFLIES, BEETLES AND BUGS (2238)

(Ottawa/Canada Department of Agriculture/1961/1 reel/17 min./sound/color/16 mm) (Grades 4-12)

Identifies the characteristics of the arthropods and makes a comparison of the vertebrate animals. Shows examples of the main groups of insects and gives the key anatomical characteristics used for identification and classification. Uses microcinematography, slow-motion, and time-lapse to reveal insect development. Includes views of the flea, the Goliath beetle, the praying mantis, and bees and ants; shows the moulting of a plant bug and the emergence of a moth.

INTERVIEW WITH GARRETT HARDIN (3561)

(King Screen productions in conjunction with Biological Science Curriculum Study/1972/1 reel/11 min./sound/color/16 mm) (Grades 7-12)

Garrett Hardin theorizes on some of the most complex social issues confronting us today, such as birth control, world health, freedom versus population, crowd mentality, women's rights and how technology can be turned toward the solution rather than the aggravation of our problems.

ISLAND OF DREAMS: A FABLE FOR OUR TIME (2545)

(Texture Films/1972/1 reel/10 min./sound/color/16 mm)
(Grades 4-12; adult)

Story of a factory worker who attempts to escape from the technological complexities of modern society, only to find that the improvements that he makes in his idyllic new island home soon grow as complex and sophisticated as the ones he left behind.

JACKY VISITS THE ZOO (2304)

(Montreal/National Film Board of Canada/1962/1 reel/12 min./sound/color/16 mm) (Grades 4-6)

A story about a young boy on a tour of the zoo, showing him as he looks at the lion, giraffe, elephant, rhinoceros, camel, and zebra. Include close-up views of birds and other animals. Illustrates what not to do at the zoo. Photographed at the Granby Zoological Garden in Quebec.

JIGGING FOR LAKE TROUT (0639)

(Education Development Center in association with the National Film Board of Canada/1967/1 reel/32 min./sound/color/16 mm)
(Grades 7-12; adult)

More wildlife returns as winter draws to an end. The family is now living in a karmak. The man chips a hole on the lake ice and jigs the line to attract the fish. His wife joins him, and both remain at the hole through a severe blizzard.

THE JOY OF WINTER (3034)

(Montreal/National Film Board of Canada/1962/1 reel/15 min./sound/B & W/16 mm) (Grades 4-9)

Shows how Canadians adjust to their long snowbound season. Pictures them as they enjoy skating, skiing and tobogganning and as they struggle against winter storms.

KNOWING IT SURVIVES US (2030)

(Steve Rosen/XeroxFilms/1971/1 reel/29 min./sound/color/16 mm)
(Grades 10-12; adult)

Assesses the status of DDT today and examines the harmful effects this agricultural pesticide has had on man and his environment. In recorded interviews, scientists in various fields discuss experiments which show how excessive use of DDT is contaminating our food and water, poisoning fish, birds and animals and placing man, himself, on the endangered species list.

LAKES: AGING AND POLLUTION (1501)

(Centron Educational Films/1971/1 reel/14 min./sound/color/16 mm) (Grades 4-9)

Examines the organisms that inhabit lakes, explains the traces of the aging process of lakes and emphasizes man's role in speeding the aging process. Features underwater photography.

LEARNING ABOUT SEEDS (1983)

(Chicago/Encyclopaedia Britannica Films, inc.,/1960/1 reel/11 min./ sound/color/16 mm) (Grades 4-6)

Uses time-lapse photography, close-ups and simple experiments to show the beginnings of plant life in seeds, the conditions required for seeds to sprout and grow, and the ways in which seeds are scattered over the earth as part of nature's plan for the survival of all living things.

LEARNING WITH YOUR SENSES (2881)

(Chicago/Coronet Instructional films/1968/1 reel/11 min./sound/ color/16 mm) (Grades K-3)

Follows the activities of a boy and his family to point out how each of the five senses provides different information about the world around us.

LET'S LOOK AT WEEDS (2899)

(Montreal/National Film Board of Canada/1959/1 reel/19 min./sound/ color/16 mm) (Grades 4-9)

An ecological study of the relationship between weeds and crop plants, describing the life history of specific weeds with reference to their susceptibility to cultural and chemical control. Shows new developments in chemical weed killers. Information in this film is dated, although it is still of value for educational purposes.

LIFE CYCLE OF A PLANT (1708)

(London/G.B. Instructional Ltd.,/1935/1 reel/10 min./sound/ B & W/16 mm) (Grades 4-12)

Traces plant growth from seed to mature plant to new seed. Through time-lapse photography, shows the processes of germination, growth above and below the soil, seed development, pollination and fertilization. Information in this film is dated, although it is still of value for educational purposes.

LIFE IN A CUBIC FOOT OF AIR (1428)

(Chicago/Coronet Instructional Films/1958/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

Explores the life in a cubic foot of air taken from the air around us, examining various living forms such as yeast plants, molds, bacteria, amoeba, and pollen grains. Uses microscopic views of these plants and animals to show something of their structure and life processes. Describes the composition of air and the non-living matter in it.

LIFE IN THE SEA (1761)

(Encyclopaedia Britannica Films/1957/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

Divides sea life into three general groups - the plankton, the bottom dwellers, and the free-swimming animals. Describes the inter-relationship of plants and animals under the surface of the sea in providing a chain of food and maintaining a delicate balance of life.

LIFE IN THE WOODLOT (0202)

(Montreal/National Film Board of Canada/1960/1 reel/16 min./sound/color/16 mm) (Grades 4-9)

Describes the natural law of the woods pointing out a pyramid of life in which the lower orders sustain and support the higher orders. Discusses the plant world in which a seedling falls by chance on a favored spot where it grows and presses its advantage for a place in the sun, while others, less fortunate, die before their time.

LIFE ON A DEAD TREE (2857)

(Los Angeles/Film Associates of California/1957/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

Two boys discover an old dead tree in the woods, and as they explore it find that it is the home of many different plants and animals, including lizards, beetles, crickets, slugs, fungus plants, tree salamanders, ants, gopher snakes and other living things.

THE LIVING BIRD (1679)

(Milwaukee/Murl Deusing Film Productions/1954/1 reel/14 min./sound/color/16 mm) (Grades 4-12)

Discusses the biology of the bird, describing its metabolism, its senses of sight, smell, and hearing, its courtship, nest-building, and incubation, and its ability to find food and fly. Describes the parasitic behaviour of the cowbird.

MAN AND HIS ENVIRONMENT II: FOOD FROM THE RAINFOREST (3425)

(Las Vegas/Wayne Mitchell/1971/1 reel/18 min./sound/color/16 mm) (Grades 4-12)

A study of the life style and economy of the Choco Indians of Central and South America. Shows how the Indians supply most of their own food by hunting, fishing, gathering and simple agriculture.

MAN AND HIS RESOURCES (2654)

(Montreal/National Film Board of Canada/1960/1 reel/28 min./sound/B & W/16 mm) (Grades 10-12; adult)

What is the responsibility of the "haves" toward the "have nots"? This film examines the growing determination of the poor of the world not to remain poor, and the great 20th-century concept of shared skills and mutual aid.

MAPS - WHERE AM I? (2870)

(Hollywood, Calif./Charles Cahill and Associates, inc./1963/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

Discusses maps and explains their use and how to read them.

MAPS SHOW OUR EARTH (2260)

(Coronet Instructional Media/1973/1 reel/10 min./sound/color/16 mm) (Grades 4-6)

Teaches children how colors and key symbols are used on maps, shows how maps can be used together, and tells how they relate to a globe.

THE MEANING OF CONSERVATION (2859)

(Chicago/Coronet Instructional Films/1954/1 reel/11 min./sound/color/16 mm) (Grades 4-9)

Explains the two basic ideas in the conservation programs: the preservation of what we have and the rebuilding of what has been lost. Shows what is being done to maintain the resources and natural beauty of the United States by limiting hunting and fishing, building dams to control floods, planting trees, establishing national and state parks, and developing new farming methods. Animation and live action.

MILK: FROM FARM TO YOU (2259)

(Encyclopaedia Britannica Educational Corp./1973/1 reel/13 min./ sound/color/16 mm) (Grades 4-6)

Traces the steps involved in the production of milk, from the milking of the cows, to the creamery and to the home, describing the tasks of various dairy workers and explaining the processes of homogenization and pasteurization. Describes the production of cheese and ice cream.

THE MOUNTAINS (2011)

(Arthur Barr Productions/1970/1 reel/14 min./sound/color/16 mm) (Grades 4-12)

Live action photography and graphics show mountain formations and the effects of glacial erosion. Close-up photography pictures cascading streams and flowered meadows, and the plants and animals found in forests, rock slides, slopes and other mountain habitats.

NOISE - POLLUTING THE ENVIRONMENT (1459)

(Chicago/Encyclopaedia Britannica Educational Corp./1971/1 reel/ 15 min./sound/color/16 mm) (Grades 4-12; adult)

A study of noise pollution as exemplified by the problems emanating from traffic noises and the noise of airplanes in residential areas.

NORTH AMERICA: ITS COASTLINES (0254)

(Coronet Instructional Films/1972/1 reel/14 min./sound/color/ 16 mm) (Grades 4-9)

Traces the historic and economic roles of coastlines, and shows the different coastlines, how they form, and how they slowly change.

NORTH AMERICA: ITS RIVERS (0296)

(Coronet Instructional Films/1972/1 reel/14 min./sound/color/ 16 mm) (Grades 4-9)

Explores the distinctive features of the major rivers of the continent and discusses their contributions to the farming, recreation, transportation and hydroelectric power of North America.

NORTH SHORE (1571)

(National Film Board of Canada/1949/1 reel/21 min./sound/B & W/ 16 mm) (Grades 7-12)

A picture of life on the barren north shore of the St. Lawrence River, and of the changes taking place in this area as its resources are tapped. Explains that after four centuries the land north of the river remains harsh and unwelcoming, the home of fishermen and trappers, miners and lumbermen. Shows the struggle for existence against hostile elements and the signs of a new era with the introduction of powerful machines in the lumber camps, the building of a new hospital, the growth of towns around mills and factories in the wilderness, and the arrival by air of equipment for the iron mines. Information in this film is dated, although it is still of value for educational purposes.

THE OCEAN OF AIR (0359)

(United World Films, inc./1960/1 reel/13 min./sound/color/16 mm) (Grades 4-9)

Uses live action and animation to explain the basic principles underlying air weight, air pressure and composition of air. Shows how air is important in daily activities and in protecting us as well as being used above and below the ocean.

OCEAN TIDES: BAY OF FUNDY (1368)

(William M. Farlow/1956/1 reel/14 min./sound/color/16 mm) (Grades 4-12; adult)

Presents scenes of the Bay of Fundy at high and low tides, showing how the tides affect the work of the fishermen, dock and repairmen and seamen. Explains what causes the tides and how the tidal range is determined by the positions of the moon and sun. Shows tidal pressure causing the rapids of the St. John River to reverse their direction. Includes animation and time-lapse photography and charts furnished by the Canadian Hydrographic Service.

OCTOPUS HUNT (0198)

(Montreal/National Film Board of Canada/1966/1 reel/17 min./sound/ color/16 mm) (Grades 7-12; adult)

A voyage down to the green depths of the Pacific Ocean, into the mysterious domain of the deep-sea diver and the marine creatures that are his quarry. The film is about a zoological expedition to capture octopus and wolf eel specimens for the Vancouver Aquarium. The underwater action is described by the divers themselves.

ONE MAN'S GARDEN (0116)

(National Film Board of Canada/1974/1 reel/21 min./sound/color/16 mm) (Grades 7-12)

Presents an allegorical look at waste in society.

ORIENTEERING (0200)

(Stockholm/Silva Industries/1968/1 reel/10 min./sound/color/16 mm) (Grades 7-12; adult)

Explains the sport of orienteering in which contestants must travel a course as quickly as possible, choosing the routes by map and compass.

THE ORIGINS OF WEATHER (2980)

(Ottawa/National Film Board of Canada/1963/1 reel/13 min./sound/color/16 mm) (Grades 4-12)

This program illustrates, from the vantage of off-the-earth observation, the factors that produce the climate we know. Animation illustrates the earth's dynamic heat exchange - the effect of the sun's heat, the movement of air masses. Resulting weather is then shown in actuality.

OUR CROWDED ENVIRONMENT (0829)

(Encyclopaedia Britannica Educational Corp./1968/1 reel/11 min./sound/color/16 mm) (Grades 10-12; adult)

Discusses the problems that have resulted from the population explosion of the 20th century, including housing and food shortages, poverty, pollution, industrial waste, and exploitation of natural resources.

OUR EARTH (1382)

(Chicago/Cenco Educational Films/1962/1 reel/12 min./sound/color/16 mm) (Grades 4-6)

Discusses land, water and air as important parts of the earth; illustrates what scientists believe the inside of the earth to be like, and the kinds of rocks that make up the earth's crust.

OUTDOOR COOKING IN WINTER (0260)

(Toronto/Moreland-Latchford Productions/1968/1 reel/11 min./ sound/color/16 mm) (Grades 7-12)

Preparing a "kitchen area" in a winter wilderness camp is described in detail.

PADDLE AND PORTAGE: THE ART OF CANOEING (1747)

(Dan Gibson Productions/1966/1 reel/12 min./sound/color/16 mm) (Grades 10-12)

Features a paddleman with 35 years of experience demonstrating the art of canoeing from basic strokes to advanced techniques. Includes demonstrations on canoe rescue and water safety.

PADDLE TO THE SEA (0231)

(Montreal/National Film Board of Canada/1966/1 reel/25 min./sound/ color/16 mm) (Grades 1-9)

A children's odyssey about the journey of a hand-carved toy canoeman from Canada's northern forest downstream to the distant sea.

PARADISE LOST (0305)

(Montreal/National Film Board of Canada/1970/1 reel/4 min./sound/ color/16 mm) (Grades 4-9)

Uses animation without narration to describe the harmony of nature and its creatures, and to show their slow death with the pollution of the atmosphere.

PARTNERSHIPS AMONG PLANTS AND ANIMALS (2677)

(Coronet Instructional Films/1959/1 reel/10 min./sound/color/ 16 mm) (Grades 4-9)

Explores three types of plant and animal partnerships - those between animals, those between plants and those between plants and animals. Shows in their natural settings such partnerships as that of the ant and the aphid, the hermit crab and bryozoa, algae and fungi in lichen, red clover and nitrogen-producing bacteria, and red clover and the bumble bee.

PEOPLE BY THE BILLIONS (2633)

(Montreal/National Film Board of Canada/1961/1 reel/28 min./sound/B & W/16 mm) (Grades 10-12; adult)

Examines the implications for the future of a greatly accelerated birth rate and a declining death rate, pointing out the problems which result from overpopulation in a world of limited resources. Shows views of Asia, Africa, Latin America, Europe and North America to point out the crowded, congested state in which a large part of humanity already lives.

PEOPLE OF THE SEAL: ESKIMOS SUMMER (0101)

(London/British Broadcasting Corp. and National Film Board of Canada/1971/2 reels/52 min./sound/color/16 mm) (Grades 7-12; adult)

An examination of the lives of the Netsilik Eskimos of the Canadian Arctic, their work and play, and the ways in which they cope with the climate of the north.

PEOPLE OF THE SEAL: ESKIMO WINTER (0371)

(London/British Broadcasting Corp. and National Film Board of Canada/1971/2 reels/52 min./sound/color/16 mm) (Grades 7-12; adult)

An examination of the lives of the Netsilik Eskimos of the Canadian Arctic, their work and play, and the ways in which they cope with the climate of the north.

PHOTOSYNTHESIS (2705); #9255 (VHS)

(Encyclopaedia Britannica Educational Corp./1981/1 reel/20 min./sound/color/16 mm) (Grades 11-adult)

Explains the basics of the photosynthetic process, as well as the ongoing research in the field. Discusses the importance of photosynthesis to all life, how it takes place in the physiology of the plant and the dynamics of photochemical reactions. Recent research includes discussion of light and dark reactions and the importance of ATP and NADPH in chloroplasts. Also highlights the significance of photosynthesis in the development of new energy sources.

THE PHYSICAL ENVIRONMENT (3018)

(Encyclopaedia Britannica Films/1963/1 reel/11 min./sound/color/16 mm) (Grades 10-12; adult)

Shows ways in which organisms are adapted to the conditions of their physical, or non-living, environment. Demonstrates how various conditions of the physical environment can be measured. Gives examples of specific adaptations by organisms to particular physical factors in their environment. With film guide.

PLANKTON AND THE OPEN SEA (1911)

(Encyclopaedia Britannica Films, inc./1962/1 reel/19 min./sound/color/16 mm) (Grades 10-12; adult)

Photomicrography and laboratory experiments show the dependence of plankton upon the surrounding sea water and importance of the minute plankton organism to marine food chains. Illustrates typical forms of plankton and explains how they are classified. With guide.

PLANT MOTIONS: ROOTS, STEMS AND LEAVES (1534)

(Chicago/Encyclopaedia Britannica Films/1958/1 reel/11 min./sound/color/16 mm) (Grades 4-12)

Uses time-lapse photography to show the basic motions of growing plants, and a series of classic experiments to show the response of the stems, leaves, tendrils and roots of growing plants to light and gravity.

PLANT TRAPS: INSECT CATCHERS OF THE BOG JUNGLE (1293)

(William M. Harlow/1954/1 reel/10 min./sound/B & W/16 mm) (Grades 7-12; adult)

A study of the pitcher plant, the sundew, and the Venus fly-trap - three insect devouring plants which are found in poorly drained ponds. Time-lapse photography shows the operation of their trapping mechanism.

PLASTIC TARPAULIN LEAN-TO (3588)

(Saskatoon/Audio Visual Centre, Saskatchewan Institute of Applied Arts and Sciences and Saskatchewan Department of Education/1 reel/10 min./sound/color/16 mm) (Grades 7-12)

Shows how to construct a simple shelter using materials found at the shelter site and a lightweight plastic tarpaulin.

PLEA FOR THE WANDERER (1020)

(Ottawa/Fisheries and Marine Service of Canada/1975/1 reel/19 min./sound/color/16 mm) (Grades K-12)

Follows the life cycles of the east and west coast salmon, revealing both the perils of nature and the threats posed by man.

POLLUTION IS A MATTER OF CHOICE (1443)

(NBC News/Educational Enterprises/1970/2 reels/53 min./sound/color/16 mm) (grades 7-12; adult)

Examines the environmental dilemma of modern man who has it in his power to preserve or ruin his environment. Uses the Everglades and Machiasport, Maine, as microcosms of the society, to illustrate man's predicament of wanting what technology creates, yet being destroyed by its wastes.

POLLUTION: LAND, WATER, AIR, NOISE (0976)

(Hollywood, Calif./Academy Films/1970/1 reel/17 min./sound/color/16 mm) (Grades 7-12)

Depicts land, air, water and noise pollution. Shows factories, oil spills, garbage dumps, forest fires and the losing of land to highway construction as examples and discusses some of the solutions to these ever-increasing problems.

THE POND (0394)

(Ottawa/Campbell Productions and Crawley Films/1961/1 reel/17 min./sound/color/16 mm) (Grades 10-12; adult)

Examines the total ecology of the pond habitat, an environment containing sunlight, minerals and permanent water of relatively constant temperature. Outstanding close-up photography observes the life forms above and below the water surface, and their interrelationships. Synchronized natural sound.

POPULATION ECOLOGY (2479)

(Encyclopaedia Britannica Films, inc./1963/1 reel/19 min./sound/color/16 mm) (Grades 10-12)

Examines factors which limit the growth rate of plant and animal populations in their natural environments. Explains how man's success in controlling his environment has affected the growth of rate of the human population and considers problems related to population explosion. With film guide.

PROBLEMS OF CONSERVATION: AIR (2195)

(Encyclopaedia Britannica Educational Corp./1968/1 reel/15 min./sound/color/16 mm) (grades 7-12; adult)

Studies the adverse effects of air pollution on health and property when wastes are allowed to permeate the air freely. Shows steps which are being taken to reduce air pollution through the use of technological legislative controls and specifies the percentages of various gases that compose the troposphere.

PROBLEMS OF CONSERVATION: FOREST AND RANGE (3010)

(Encyclopaedia Britannica Education Corp./1969/1 reel/14 min./ sound/color/16 mm) (Grades 7-12; adult)

Reveals the great importance of forest and range to man's existence on earth. Introduces the scientific principle of multiple use for protection and management of forest and range lands, and emphasizes that the encroachment of a growing world population poses a serious problem of conservation.

PROBLEMS OF CONSERVATION: WATER (2172)

(Encyclopaedia Britannica Educational Corp./1969/1 reel/16 min./ sound/color/16 mm) (Grades 7-12; adult)

Describes communities and localities which have water problems, and shows the pollution of the Great Lakes.

PROPER SUMMER BUSH CLOTHING (0280)

(Toronto/Moreland-Latchford Productions/1967/1 reel/10 min./ sound/color/16 mm) (Grades 4-12)

Two boys head off on a fishing trip, one wearing correct clothing, and the other, ordinary light summer weight slacks and shirt. Proper clothing is essential to one's comfort and well-being when camping out.

RAINFOREST FAMILY (3288)

(Las Vegas/Wayne Mitchell/1971/1 reel/17 min./sound/color/16 mm) (Grades 4-12)

Describes the lifestyle of the Choco Indians of Central and South America, noting that they are typical of hunting-gathering societies in tropical forests.

RAINSHOWER (0534)

(Dimension Films/1965/1 reel/15 min./sound/color/16 mm) (Grades K-6)

Various detailed close-ups of people and things in the rain. Explains that rain is a source of the water which we use and that it affects plants and other living things as well as people working in the community.

THE REALITIES OF RECYCLING (0993)

(Washington, D.C./U.S. Environment Protection Agency/1971/1 reel/38 min./sound/color/16 mm) (Grades 7-12; adult)

Details the problems and potentials of recycling. Describes existing markets for glass, aluminum, steel cans, paper and old car hulks. Tells of new recycling technology for the future.

THE RIVER: A FIRST FILM (2433)

(New York, BFA Films & Video/1986/1 reel/11 min./sound/color/16 mm) (Grades 1-6)

Explains that a river derives its water from the rain and snow. The melting rain and snow form streams which eventually join to become a river. Discusses why cities are located along rivers.

THE ROBIN (1686)

(A & F Producers/1960/1 reel/9 min./sound/color/16 mm) (Grades 4-6)

Examines the annual cycle of robins, building nests and raising a family. Compares robins to the thrush family.

ROBIN REDBREAST (2731); #9264 (VHS)

(Encyclopaedia Britannica Films, inc./1957/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

The story of a robin family from the time the parents build their nest until the baby robins are old enough to take care of themselves.

ROCKS AND MINERALS: HOW WE IDENTIFY THEM (0816)

(Coronet Instructional Films/1971/1 reel/14 min./sound/color/16 mm) (Grades 4-9)

Shows how common rocks and minerals can be identified by color, texture, hardness, streak and other standard procedures.

ROCKS THAT FORM ON THE EARTH'S SURFACE (0096); #7934 (VHS), 7935 (BETA)

(Encyclopaedia Britannica Films/1964/1 reel/13 min./sound/color/16 mm) (Grades 4-9)

Investigates sedimentary rocks to discover their origin, composition, and how they are formed. Shows how sediments are produced, transported, accumulated and hardened by processes which can be observed on land and in shallow water.

ROOT DEVELOPMENT (1674)

(London/G.B. Instructional/1950/1 reel/9 min./sound/B & W/16 mm) (Grades 10-12; adult)

Through microphotography speeded up 30,000 times, reveals details of root structure and growth. Animated diagrams show moisture absorption. Demonstrates the actions of the roots and the sensitivity of the root tip. American version of the motion picture released in England entitled Plant Life: Roots.

ROOTS OF PLANTS (2831); #9265 (VHS)

(Encyclopaedia Britannica Films/1957/1 reel/10 min./sound/color/16 mm) (Grades 7-12; adult)

Describes different kinds of roots and explains how they hold plants in place and absorb food elements from the soil. Time-lapse photography, cinemicrography, animted drawings and laboratory experiments demonstrate root growth, work of root hairs and osmosis.

SAY GOODBYE (3133)

(Los Angeles, Calif./Wolper Productions/1970/2 reels/50 min./sound/color/16 mm) (Grades 10-12)

Examines man's careless arrogance toward the delicate balance of his relationship to the wildlife on earth and shows the necessity of sharing life with the wild creatures. This film should not be shown to less than mature audiences without prior evaluation by the teacher. With study guide.

THE SEA (1912)

(Encyclopaedia Britannica Films, inc./1962/1 reel/27 min./sound/color/16 mm) (Grades 4-12; adult)

Depicts interrelationships between living things in the sea, their dependence on each other and on the varying conditions of the marine environment. Illustrates basic concepts of marine ecology, such as the evolution of life and the predation and reproduction of marine life. With film guide.

SEASONAL CHANGES IN PLANTS (1652)

(Lawrence, Kan./Centron Corporation, inc./1958/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

Illustrates and explains the various changes that take place in a plant through the cycle of the seasons, using typical examples of annuals, biennials and perennials.

SEED DISPERSAL (1440); #9269 (VHS)

(Encyclopaedia Britannica Educational Corp./1971/1 reel/11 min./ sound/color/16 mm) (Grades 4-6)

Describes various natural methods by which seeds of uncultivated plants are dispersed. Uses time-lapse photography to show the varied propagation techniques of plants. With study guide.

SEED GERMINATION (1913)

(Encyclopaedia Britannica Films, inc./1960/1 reel/14 min./sound/ color/16 mm) (Grades 7-12)

Time-lapse photography demonstrates a wide variety of experiments with germinating seeds. Explains that seed germination is one of the key phenomena of the plant world, and discusses the practical significance of seed and grain plants. With film guide.

SHELTER CONSTRUCTION IN WINTER (3171)

(Toronto/Moreland-Latchford Productions/1968/1 reel/13 min./sound/ color/16 mm) (Grades 7-12)

Explains that comfortable shelters can be constructed easily, even during winter's cold conditions. Shows some of the methods used to build comfortable shelters. With film summary.

SHELTER CONSTRUCTION: PLASTIC TARPAULIN AND CANOE (3579)

(Saskatoon/Audio-Visual Centre, Saskatchewan Institute of Applied Arts and Sciences/1 reel/8 min./sound/color/16 mm) (Grades 7-12)

Shows a method of constructing a shelter using a canoe, a plastic tarpaulin and materials found in the environment.

SIMPLE ORGANISMS: ALGAE AND FUNGI (3907)

(Chicago/Coronet Instructional Media/1979/1 reel/13 min./sound/ color/16 mm) (Grades 7-12; adult)

Various types of algae and fungi from microscopic single-celled representatives to the complex, visible ones, are examined and explored in their natural habitats. With guide.

SIMPLE PLANTS: THE ALGAE (2233)

(Encyclopaedia Britannica Films/1962/1 reel/17 min./sound/color/ 16 mm) (Grades 10-12; adult)

Traces the evolutionary development of algae in terms of structure and reproductive mechanisms. Shows typical forms of algae as they are adapted to various habitats, and explains the ecological role of algae in different environments. Photomicrography reveals a variety of reproductive processes. With study guide.

SKI! (1161)

(Ottawa/Canada Department of National Health and Welfare/1964/ 1 reel/15 min./sound/color/16 mm) (Grades 4-12)

Follows a family of four on a typical ski outing in the mountains of Canada in order to show the pleasures of skiing, regardless of the stage of learning.

SKI THE OUTER LIMITS (1657)

(Continental Air Lines/1968/1 reel/28 min./sound/color/16 mm) (Grades 7-12; adult)

Demonstrates the essential mechanics of skiing. Depicts the inner limits of the sport - the discipline which must be learned before the skier has the capability for freedom of expression.

SKIING: BEGINNING MOVEMENTS (2150)

(Boulder, Colo./Spencer Nelson Film Productions/1965/1 reel/ 11 min./sound/color/16 mm) (Grades 7-12; adult)

Demonstrates beginning techniques of skiing, including falling properly, getting up, turning, walking, climbing, straight running and an introduction to the snowplow.

THE SLOW GUILLOTINE (1713)

(Los Angeles/KNBC-TV/1970/2 reels/53 min./sound/color/16 mm) (Grades 7-12; adult)

Focuses on Los Angeles and its environs to create awareness and to spur action on the problem of air pollution and its danger to the whole country.

SMOKE AND WEATHER (3061)

(Ottawa/Forestry Branch of Department of Northern Affairs and Natural Resources/1958/1 reel/22 min./sound/color/16 mm) (Grades 4-12)

Shows how a lookout man is trained to detect and report forest fires from a tower, and how fire weather observations are made and used.

SNAKES AND HOW THEY LIVE (2149)

(Hollywood, Calif./Charles Cahill and Associates/1968/1 reel/ 13 min./sound/color/16 mm) (Grades 4-6)

Presents a basic study of snakes in the study of reptiles. Includes close-up photography.

SNOWSHOEING (0369)

(Toronto/Moreland-Latchford Productions/1968/1 reel/12 min./ sound/color/16 mm) (Grades 4-12)

Demonstrates the tricky aspects of walking in deep snow with "basket shoes".

SPRING COMES TO THE SUB-ARCTIC (1660)

(University of Minnesota/1955/1 reel/15 min./sound/color/16 mm) (Grades 7-12; adult)

Shows plant and animal life in the sub-Arctic and portrays the changes which occur as spring comes to the northern region of Canada. Includes detailed scenes of native plants, and close-ups of birds of the area.

THE SPRUCE BOG: AN ESSAY IN ECOLOGY (1100)

(Montreal/National Film Board of Canada/1956/1 reel/23 min./sound/ color/16 mm) (Grades 4-12)

Describes the conditions under which a spruce bog is formed, with details of the plant types found at successive stages of development from open water to mature forest. Time-lapse photography illustrates the growth and decay of vegetation preceding the appearance of shangnum moss which chokes off water to make the floor of the forest. Discusses the commercial uses of peat extracted from such bogs and the value of black spruce to Canada's pulp industry.

STALKING SEAL ON THE SPRING ICE (3185)

(Education Development Center in association with National Film Board of Canada/1967/2 reels/59 min./sound/color/16 mm) (Grades 7-12; adult)

Portrays the traditional Eskimo life of the Netsilik Eskimos. Shows a family on the shore of Pelly Bay in May and June. Shows how seals are hunted and how the man and his wife skin the seals.

SUCCESSION: FROM SAND DUNE TO FOREST (1487)

(Encyclopaedia Britannica Films, inc./1960/1 reel/15 min./sound/ color/16 mm) (Grades 7-12; adult)

Explains that succession is the process by which a given area changes slowly and continuously until it finally becomes a stable community. Shows one of the earliest and most thoroughly studied examples of this process, emphasizing the general principles involved and describing interesting details. Filmed at the southern end of Lake Michigan. With film guide.

THE SURFACE OF THE EARTH (1694)

(Hollywood, Calif./AV-ED Films/1959/1 reel/11 min./sound/color/16 mm) (Grades 4-12)

Describes the unusual formation of the ever-changing earth. Shows views of the caves of Virginia and New Mexico with their stalagmites and stalactites, of the wind-blown and water-worn mountains and rocks of the southwest, and of the glacial-formed lakes and valleys, using animation to explain how these wonders of nature were formed.

SURVIVAL KIT: PART 1 (3298)

(Toronto/Moreland-Latchford Productions/1967/1 reel/9 min./sound/color/16 mm) (Grades 7-12)

Details the numerous items in the survival kit contained in a pocket sized box and shows how they are designed to combat the seven enemies of survival.

SURVIVAL ON THE PRAIRIE (1096)

(New York/National Broadcasting Co./1970/2 reels/53 min./sound/color/16 mm) (Grades 7-12)

Studies the ecological history of the American grasslands, describing the destruction of the grasslands by man and the present-day realization that the land has to be protected.

SURVIVAL SWIMMING: TO SAVE A LIFE (1365)

(London/Boulton-Hawker Films in cooperation with the American Swimming Association/1965/1 reel/14 min./sound/color/16 mm) (Grades 7-12; adult)

Demonstrates skills needed for survival swimming, including floating, use of side and breast stroke and treading water. Illustrates cases where it may be necessary to swim underwater and shows when and how to dive and jump. Demonstrates the correct use of a tow-line or rope ladder, getting into and out of the water, and using clothing for support.

THE TEMPERATE DECIDUOUS FOREST (1612)

(Encyclopaedia Britannica Films, inc./1962/1 reel/16 min./sound/color/16 mm) (Grades 7-12; adult)

Shows the full yearly cycle of spring, summer, fall and winter in the temperate deciduous forest. Pictures typical deciduous forest plants and animals in their natural environments and uses time-lapse, photomicrography and close-up photography to show the complex network of plant and animal relationships that make up the deciduous forest community. With film guide.

THAT THEY MAY LIVE: THE STORY OF DIRECT ARTIFICIAL RESPIRATION (1065)

(Hollywood, Calif./Pyramid Film Producers/1959/1 reel/19 min./ sound/color/16 mm) (Grades 4-12; adult)

Shows how to apply direct artificial respiration in various emergency situations.

TOADS (2795)

(Los Angeles/Pat Dowling Pictures/1957/1 reel/11 min./sound/color/ 16 mm) (Grades 4-9)

Color paintings of ancient water and land animals are used to explain that the toad is an example of the few remaining descendants of prehistoric amphibians. Shows the life cycle of the toad from a water-born to a land dwelling animal. With study guide.

THE TROPICAL RAIN FOREST (1914)

(Encyclopaedia Britannica Films, inc./1961/1 reel/16 min./sound/ color/16 mm) (Grades 7-12)

A camera study of the complex communities which make up the tropical rain forest. Points out that the greatest variety of plant and animal life is found in the tropical rain forests, which cover 1/10th of the earth's land surface. With guide.

THE TROUT LAKE CREE (0556)

(Universal City, Calif./Universal Education and Visual Arts/1974/ 2 reels/57 min./sound/B & W) (Grades 7-12; adult)

Documents the way of life of the Trout Lake Cree Indians of Alberta, with emphasis on the traditional role of hunting, fishing and trapping in the community life. Describes how these ancient methods of survival have formed the basis of the tribe's culture and values.

USING A COMPASS (1463)

(Toronto/Moreland-Latchford Productions/1967/1 reel/12 min./sound/ color/16 mm) (Grades 4-12)

Shows the types of compasses and how to use the compass with a map. Also explains how to follow a bearing, how to estimate distances by tally, and how to use the pace system.

VACANT LOT (0475)

(Chicago/International Film Bureau/1961/1 reel/21 min./sound/color/16 mm) (Grades 4-12)

Shows the various forms of life to be found on a vacant lot in a region near Upper Michigan. Pictures plant and insect life and shows adaptation and interdependence of various forms of life.

A VISIT TO THE WATERWORKS (1073)

(Chicago/Encyclopaedia Britannica Films, inc./1956/1 reel/11 min./sound/color/16 mm) (Grades 4-6)

Shows an elementary school class being taken on a tour of the local waterworks. Demonstrates how water is pumped in, chemically treated, filtered and tested before it is piped to houses and buildings of the town. Points out major water supply sources and illustrates various uses of the community water supply. Information in this film is dated, although it is still of value for educational purposes.

THE VOYAGEURS (1830)

(Montreal/National Film Board of Canada/1964/1 reel/21 min./sound/color/16 mm) (Grades 4-12)

Uses commentary from journals of a century ago to recall the adventures of the early French fur traders, the first men to penetrate the Canadian frontier via the treacherous waterways. Actually filmed on the Ottawa, Mattawa and other rivers that once formed the 3,000 mile trade route to Athabasca.

THE WATER DILEMMA (2360)

(Canadian Broadcasting Corp./Toronto/1972/1 reel/20 min./sound/color/16 mm) (Grades 7-12)

Explores the issues surrounding the storage and sale of Canadian water to the United States for use in the arid but increasingly populous Southwestern United States.

WATER IN THE AIR (1078)

(Chicago/Cenco Educational Films/1962/1 reel/13 min./sound/color/16 mm) (Grades 4-9)

Explains that the water in the air plays a role in determining the kind of weather at a given moment. Describes how the excess water condenses to form precipitation. Points out that the continuous process of evaporation and condensation of water in the atmosphere is necessary for the existence of living and growing things.

WATER, WATER EVERYWHERE (0286)

(National Film Board of Canada/1971/1 reel/5 min./sound/color/16 mm) (Grades 4-12; adult)

Shows the slow gasping death of a trout in increasingly polluted water.

WATERFOWL: A RESOURCE IN DANGER (2412)

(Montreal/National Film Board of Canada/1966/1 reel/17 min./sound/color/16 mm) (Grades 4-12)

Explains that the farmer in the grain-growing region of western Canada who fills in potholes and drains marshes, poses a threat to the survival of waterfowl by depriving them of food and nesting grounds.

WE'RE AT HOME! (3637); #6669 (VHS), 6670 (BETA)

(Manitoba School Broadcasts/1975/1 reel/15 min./sound/color/16 mm) (Grades K-6)

In this film, some mammals and birds native to western Canada are shown at Assiniboine Park Zoo.

WE'RE FROM AFAR! (3636); #6671 (VHS), 6672 (BETA)

(Winnipeg/Manitoba School Broadcasts/1975/1 reel/18 min./sound/color/16 mm) (Grades K-6)

Describes exotic mammals and birds found in the Assiniboine Park Zoo, including the siberian tiger, deer, camel, flamingo, zebra, ostrich, buffalo and stork. The film explores these birds and mammals in terms of their behavior and communication ability.

WEATHER: UNDERSTANDING STORMS (2595)

(Chicago/Coronet Instructional Films/1962/1 reel/11 min./sound/B & W/16 mm) (Grades 4-9)

Shows how temperature, pressure and moisture interact to bring about the various types of storms and describes the distinguishing characteristics of each type. Emphasizes the increasingly important role of meteorology and weather satellites in forecasting storms. Shows development of a storm cloud, tornadoes, hurricanes, dust storms, and blizzards.

WEATHER: WHY IT CHANGES (1691)

(Chicago/Coronet Instructional Films/1962/1 reel/11 min./sound/color/16 mm) (Grades 4-12)

Presents a simple and clear explanation of how and why changes in weather occur. Locates the air masses which govern major weather changes in North America and shows what happens when these masses interact, forming cold fronts, warm fronts and occluded fronts.

WHAT IS ECOLOGY? (2448)

(Encyclopaedia Britannica Films/1961/1 reel/11 min./sound/color/16 mm) (Grades 7-12)

Explores the major biomes of the world from high Arctic to the tropical rain forest. Shows plants and animals in their natural habitats. Discusses the relationships between organisms and their environment, the community concept and changes that take place within communities. With guide.

WHAT MAKES THEM RUN? (0609)

(Ottawa/Crawley Films/1974/1 reel/22 min./sound/color/16 mm) (Grades 7-12)

Shows the world championship meets for orienteering held in Sweden in the summer of 1973.

WHO KILLED LAKE ERIE? (0484)

(National Broadcasting Co./1969/2 reels/52 min./ sound/color/16 mm) (Grades 7-12)

Presents Lake Erie as an example of man's indifferent destruction of his environment. Shows the pollution of the lake, the results of that pollution and what is being done about it.

WILDFIRE (1496)

(MGM Documentary/Ronox Productions, inc./1971/2 reels/52 min./sound/color/16 mm) (Grades K-12)

Originally telecast on the NBC documentary program G.E. monogram series. A documentary about large fires, fire-fighting methods and people, animals and nature destroyed by fires.

WINTER SURVIVAL IN THE BUSH (4132)

(Yellowknife, N.W.T./Goldi Productions/1981/1 reel/19 min./ sound/ color/16 mm) (Grades 7-12)

Through three dramatic case histories, the film teaches the viewer how to recognize the basics of winter survival. Includes information on first aid, fire-building, shelter construction, signals, food and preparation of an emergency kit.

YOU BET YOUR LIFE: A MATTER OF SURVIVAL (4031)

(Winnipeg/Cotter Wildlife Productions/1979/1 reel/26 min./sound/ color/16 mm) (Grades 7-12; adult)

Demonstrates various winter survival techniques - equipment to carry in a car, what items to put into an emergency or survival kit, and how to construct three different types of winter shelters. Stresses the importance of being prepared for an emergency. With guide.

YOUR ENVIRONMENT IS THE EARTH (0814)

(Reinald Werrenrath, Sr./1968/1 reel/13 min./sound/color/16 mm) (Grades 4-6)

Describes an environment as the surroundings in which we live and explains that our environment on the surface of the earth is necessary to sustain our lives. Shows the various environments found within each of our temperature zones. Demonstrates that exploration of the ocean depths and outer space calls for taking part of our natural environment with us.

OUTDOOR EDUCATION 16 mm FILMS (Added Titles)

COLD WATER: THE SILENT KILLER (4155)

(Yellowknife, N.W.T./Goldi Productions/1981/1 reel/18 min./sound/color/16 mm) (Grades 7-Adult)

Discusses "immersion hypothermia" - the rapid cooling of the body core that occurs when a person falls into water which is less than 21 degrees Celsius. Illustrates the HELP and huddle positions in the water as well as the proper handling of a victim to prevent "afterdrop". Through case histories, shows how adults and children can prevent cold water tragedies.

DAWN FLIGHT (1004)

(Santa Monica, California/Pyramid Films/1976/1 reel/22 min./sound/color/16 mm) (Grades 7-Adult)

Follows the adventures of a glider pilot and shows the fun of the sport of gliding. Filmed at Pope Valley Air Ranch, California.

DOUBLES BASIC (0216)

(Montreal, National Film Board of Canada/1977/1 reel/28 min./sound/color/16 mm) (Grades 7-Adult)

Filmmaker Bill Mason and his son go canoeing. Paddling double, the canoeists demonstrate the basic padding strokes and how to apply them in a variety of combinations to move the canoe at will. Throughout the film the application of each stroke in rapids is shown briefly with emphasis on the necessity of working as a well co-ordinated team.

DOUBLES WHITEWATER (0228)

(National Film Board of Canada/1977/1 reel/28 min./sound/color/16 mm) (Grades 7-Adult)

Demonstrates proper canoeing techniques for running whitewater rapids. Emphasizes the importance of planning a route and a strategy and of being able to land safely for portage.

FISHERMAN'S FALL (0553)

(Montreal, National Film Board of Canada/1967/1 reel/14 min./sound/color/16 mm) (Grades 7-Adult)

One of Canada's best known fly-fishermen, essayist Roderick Haig-Brown, demonstrates the art of salmon fishing in the Campbell River of north Vancouver Island, against a background of early autumn foliage. The film, like the fisherman, has eyes for more than the river's surface. The camera looks below, showing what a fish sees and the fisherman senses. A film of solitude and harmony of man and nature.

FITNESS TRAILS (2992)

(Ottawa, Bomi Productions/1976/1 reel/6 min./sound/color/16 mm) (Grades 4-12)

Describes a fitness trail, its uses and benefits. The film also draws attention to the utilization of the trail in winter or cross-country skiing and snowshoeing.

FLIGHT (1387)

(Montreal, National Film Board of Canada/1967/1 reel/8 min./sound/color/16 mm) (Grades 4-Adult)

Fuses movements of gliders with Canadian mountain background.

HOLIDAY ON SKIS (2186)

(Town and Country Productions/1971/1 reel/20 min./sound/color/16 mm) (Grades 4-Adult)

Takes a look at a ski resort in Bergen, Oslo. Describes basic techniques for beginners in downhill skiing and provides picturesque views of this area of Norway.

THE MOODS OF SURFING (3093)

(Pyramid Film Producers/1968/1 reel/16 min./sound/color/16 mm) (Grades 4-Adult)

An abstract film which interprets the various moods of surfing against the sights, sounds, beauty, and rhythm of the ocean.

THE NEW BOYS (0292)

(National Film Board of Canada/1974/1 reel/26 min./sound/color/16 mm) (Grades 7-Adult and teacher training)

Profiles St. John's Cathedral Boys' School at Selkirk, Manitoba, a demanding outdoor school for boys aged 13 to 15. Describes the initiation to the school as a 350-mile canoe trip and shows what the boys learn, not only of outdoor lore but of cooperation and confidence.

ORIENTEERING (2449)

Simon Fraser University/1970/1 reel/18 min./sound/color/16 mm) (Teacher training)

A film introduction to the enjoyment of orienteering as a sport for school playground, park or forest. Accurate map and compass use are especially important for orienteering, hiking, hunting and cross-country skiing.

OUTDOOR EDUCATION (2194)

(American Association for Health, Physical Education and Recreation/1969/1 reel/28 min./sound/color/16 mm) (Teacher Training)

Shows how outdoor experiences may be provided for today's children through the use of the school site and other outdoor settings as learning laboratories, outdoor schools, outdoor interest, skills and teacher education.

RIDE THE WIND: MOODS OF HANG GLIDING (2342)

(Aspen, Colo., Crystal Productions/1976/1 reel/24 min./sound/color/16 mm) (Grades 7-Adult)

Explores the excitement of the new sport of hang gliding and approaches the subject from the perspective of the beginner to the perspective of the expert.

SOLO (3137)

(Santa Monica, Calif., Pyramid Films/1971/1 reel/15 min./sound/color/16 mm) (Grades 7-Adult)

Presents the efforts and exhilarations that are experienced by the solo mountain climber. Filmed in Mexico, the United States and Canada.

SOLO BASIC (0227)

(Montreal, National Film Board/1977/1 reel/28 min./sound/color/16 mm) (Grades 7-Adult)

An instructional film on canoeing with filmmaker Bill Mason.

SOLO WHITEWATER (0229)

(Montreal, National Film Board/1977/1 reel/28 min./sound/color/16 mm) (Grades 7-Adult)

Filmmaker Bill Mason gives instructions on canoeing and portaging.

TOMORROW WINTER COMES (0252)

(Montreal, National Film Board of Canada/1974/1 reel/27 min./sound/color/16 mm) (Grades 4-Adult)

Depicts the sport of cross-country skiing.

WEBBED FEET (1299); #6917 (VHS), 6918 (BETA)

(Winnipeg: Manitoba Dept. of Education, Production and School Broadcasts/1979/1 reel/20 min./sound/color/16 mm) (Grades 4-Adult)

The film shows the making of snowshoes, their uses, simple snowshoeing techniques and historical references to snowshoes.

WILD BOUNTY: BACK TO OUR ROOTS (4324)

(Winnipeg, Cotter Wildlife Productions/1984/1 reel/14 min./sound/color/16 mm) (Grades 4-Adult)

Identifies a variety of wild edible plants in Canadã and discusses their uses. Includes: Rock tripe (lichen), wild onion, cattail, yellow pond lily arrowhead, marsh marigold, morel, wild strawberry, blueberry, saskatoon, wild raspberry, highbush cranberry, Lambs quarters, beaked hazelnut, Jerusalem artichoke, and wild rose.

WILD DOGS OF JASPER (3625)

(Karvonen Films Limited/1983/1 reel/25 min./sound/color/16 mm) (Grades 7-12)

Shows the wolves and coyotes which inhabit Jasper National Park in the Canadian Rockies, explaining ow they live and affect other life in the Park. Discusses the recent scientific studies being done on the wolf and coyote populations.

WINTER SURVIVAL (3921)

(Montreal, National Film Board of Canada (Pacific Region)/1979/1 reel/15 min./sound/color/16 mm) (Grades 4-Adult)

A short documentary on how to survive outdoors in winter. Two real-life situations are enacted, involving a cross-country skier and a snowmobiler who find themselves stranded. The skier almost succumbs, but the snowmobiler, who is equipped knows how to care for himself. The film shows how knowledge means survival.

Department of Natural Resources

a) Parks Branch

Information and programs are available to teachers by contacting:

Department of Natural Resources
Parks Branch
4th Floor, 258 Portage Avenue
Winnipeg, Manitoba
R3C 0B6

Phone: 945-3703

PROGRAMS

Group Use Information

Park Entrance Passes

Free entrance to Manitoba Provincial Parks will be extended to the following groups for day-use and special-use programs:

- School and youth groups
- Charitable organizations

1. Designated school buses (i.e., those displaying in 8" lettering "School Bus" at front and rear, with flashing lights affixed to the vehicle and used for transporting students and those participating in day-use or special-use programs) are granted free entrance into Provincial Parks up to and including the last weekday in June.

2. Following this date, and until the re-opening of the regular school session for all school buses transporting groups for day-use or special-use programs must present a special triangular pass to gain free entrance into Provincial Parks.

   To obtain these special entry passes, a written request must be submitted to:

   Information Officer
   Parks Branch
   4th Floor, 258 Portage Avenue
   Winnipeg, Manitoba
   R3C 0B6

   These passes are granted for a specified time and location only and must be surrendered to the attendant at the park gate.

3. Charitable organizations that use a chartered bus or van and who require free entrance during the park operating season (mid-May until the end of September) will be provided with an entrance pass upon written application to the Information Officer. These passes are granted for a specified period and must be surrendered to the attendant at the park gate.

4. Senior citizens' groups that use chartered buses or vans to enter parks must apply to the Information Officer for vehicle entry passes.

   Senior citizens operating their own motor vehicles and presenting suitable proof of age may enter Provincial Parks without payment of the park entry fee.

   Senior citizens who register for a campsite may camp for half of the regular camping fee (Monday noon until Friday noon).

5. Special two-hour passes will be made available for private cars or service vehicles transporting children or disabled persons in or out of the park, from the day camp and group use areas in Birds Hill Provincial Park.

Group-Use Facilities and Services

Group-use facilities are available in many provincial parks. These facilities which include group-camping and day-use areas are available on the following basis:

- Free group camping privileges are available to schools non-profit charitable organizations or groups that are using designated group camping areas.

- All the groups and organizations referred to above will be required to pay the applicable transient camping fees when using other camp sites.

Group-Use Areas

The following list indicates the provincial park group-use area locations and the addresses where reservations may be used.

Please make arrangements in advance for your field trips.

Asessippi Provincial Park
Box 849
Roblin, Manitoba
ROL 1PO
564-2692

Birds Hill Provincial Park
Box 183, R.R. #2
Dugald, Manitoba
ROE OKO
222-9151

Turtle Mountain Provincial Park
(Adam and Max Lakes)
Box 820
Boissevain, Manitoba
ROK OEO
534-2936

William Lake Provincial Rec. Park
Box 820
Boissevain, Manitoba
ROK OEO
534-2936

Clearwater Lake Provincial Park
Box 2550
3rd Street and Ross Avenue
The Pas, Manitoba
R9A 1M4
Phone: 623-6411

Duck Mountain Provincial Park
(Wellman & Childs Lakes)
P.O. Box 239
Swan River, Manitoba
R0L 1Z0
Phone: 734-3429

Hecla Provincial Heritage Park
P.O. Box 70
Riverton, Manitoba
R0C 2R0
Phone: 378-2945

Spruce Woods Prov. Heritage Park
Box 247
Carberry, Manitoba
R0K 0H0
Phone: 827-2458

St. Malo Prov. Rec. Park
Box 2019
Steinbach, Manitoba
R0A 2A0
Phone: 326-4471

Lynch's Point Prov. Rec. Park
25 Tupper Street
Portage la Prairie, Manitoba
R1N 3K1
Phone: 857-9711

Whiteshell Provincial Park
(Falcon Lake)
Falcon Lake, Manitoba
R0E 0N0
Phone: 349-2201

Whiteshell Provincial Park
(Caddy & West Hawk Lakes)
West Hawk Lake, Manitoba
R0E 0N0
Phone: 349-2245

Whiteshell Provincial Park
(White Lake)
Rennie, Manitoba
R0E 1R0
Phone: 369-5232

Whiteshell Provincial Park
(Opapiskow)
Seven Sisters, Manitoba
R0E 1Y0
Phone: 348-2203

Camp Morton Provincial Rec. Park
Box 388
Winnipeg Beach, Manitoba
R0C 3G0
Phone: 642-7143

Stephenfield Provincial Rec. Park
Box 10
Manitou, Manitoba
R0G 1G0
Phone: 242-2950

School Program (Outdoor Education Program)

Some Provincial Parks have education programs available for school groups. These programs are generally available in late May and June. Special arrangements may be made as well for fall and winter programs at Bird's Hill, Spruce Woods and Hecla.

Outdoor Recreation

Provincial parks may provide your group with opportunities to experience the outdoors through canoeing, cross-country skiing, snowshoeing, walking, backpacking and cycling. There are trails and routes of varying lengths and difficulty, some of which have a map, pamphlet or brochure describing them.

To obtain park maps or brochures, contact:

Parks Branch
Customer Services
4th Floor, 258 Portage Avenue
Winnipeg, Manitoba
R3C 0B6

Phone: 945-3703

Park Maps

Provincial Parks

Asessippi
Birds Hill
Clearwater
Duck Mountain (brochure)
Grand Beach
Grass River
Nopiming (brochure)
Turtle Mountain (brochure)
Whiteshell (brochure)

Provincial Heritage Parks

Hecla
Spruce Woods
Pinawa Dam

Wayside Parks

Wekusko Falls

Provincial Recreation Parks

Bakers Narrows
Camp Morton
Grand Valley
Lynch Point
Manipogo
Moose Lake
Paint Lake
Rainbow Beach
Rivers
St. Ambroise
St. Malo
Stephenfield
Watchorn
William Lake

Winter Recreation Maps

Whiteshell Provincial Park

Winter Recreation Activities

Asessippi Provincial Park

Asessippi Cross-country Ski Trails

Beaudry Provincial Heritage Park

Cross-country Ski Trails

Birds Hill Provincial Park

Winter Activities

Camp Morton Provincial Recreational Park

Cross-Country Ski Trails

Clearwater Provincial Park

Winter Activities

Grand Beach Provincial Park

Winter Recreation Activities

Hecla Provincial Park

Winter Recreation Activities

Paint Lake Provincial Recreational Park

Winter Recreation Activities

Portage Sandhills

Cross-Country Ski Trails

Sandilands Provincial Forest

Winter Recreation Activities

Spruce Woods Provincial Park

Winter Recreation Activities

Turtle Mountain

Winter Recreation Activities

Duck Mountain Provincial Park

Childs Lake Cross-country Ski Trails
Wellman Lake Cross-country Ski Trails

St. Malo Provincial Recreation Park

Cross-country Ski Trails

Canoe Route Maps

Canoe route maps, topographical and air photo maps may be obtained from:

Department of Natural Resources
Map Sales
1007 Century Street
Winnipeg, Manitoba
R3H 0W4

Phone: 632-8681

Grass River Canoe Route
Kautunigan Route
Little Grand Rapids Route
Middle Track and Hayes River Route
Mistik Creek Canoe Route
Riviere aux Rats Route des Canots (French version)
Riviere aux Rats Canoe Route (English version)
Sasaginnigak Canoe Country
Whitemouth River Canoe Route
Winnipeg River Route

Other

The Red River Corridor
Nopiming Provincial Park Recreation Water Routes
Grass River Recreation Water Route

Summary

The following chart, Table 1, outlines the various facilities, programs and activities that are of special value to groups wishing to have an educational, recreative and enjoyable park visit. We invite teachers and group leaders to study Table 1 and the preceding descriptive information in making their plans for group visits to the parks. Those wishing to reserve a facility or receive programming assistance, to ensure a successful outing, should provide park staff with the following information:

- name of group (address)
- desired service
    - camping area requested
    - day-use area requested
    - school program (priority to school groups)
    - scheduled public program (available to any group)
    - trail or route map and information desired
- group size
- arrival and departure times and dates
- contact person and phone number

In some group-use locations, the use of wheeled recreation or motor vehicles may be restricted.

As many requests for space are received, please be in contact prior to May 1st, to avoid disappointment.

The Parks Branch is looking forward to assisting you with your school program and outdoor recreation plans, so that your students and group members may enjoy Manitoba's Provincial Parks.

TABLE 1
GROUP SERVICES
FACILITIES, RECREATION OPPORTUNITIES AND EDUCATIONAL PROGRAMS

PARKS		Canoe Routes	X-C Ski & Snowshoe Trails	Walking, Hiking & Backpacking Trails	Self-guiding Trail(s)	Scheduled Public Programs				School Programs (Outdoor Education)	Group Use Areas (Summer only)
						Amphi-theatre	Conducted Walks	Other Events	Interpretive Centre/Museum		
Birds Hill			X	X	X	X		X		X	X
WHITESHELL	Falcon		X	X	X	X	X	X		X JUNE	X
	Caddy	X		X	X						X
	White										X
	Big Whiteshell		X	X		X	X	X		X JUNE	
	Nutimik			X	X	X	X	X	X	X JUNE	
	Alf Hole		X		X		X	X	X	X JUNE	
	Inverness Falls		X								
	Otter Falls		X								
Grand Beach			X	X	X	X	X	X		X JUNE	
Camp Morton											X
Hecla			X	X	X	X	X	X	X	X	X
St. Malo											X
Spruce Woods		X	X	X	X	X	X	X	X	X	X
Stephenfield											X
Turtle Mountain		X	X	X	X						X
Duck Mountain			X	X	X						X
Assessippi					X						X
Clearwater			X								X
Grass River		X									
Paint Lake		X	X	X							X
Readry			X	X							
Rakers Narrows			X								
Portage Sandhills			X								
St. Norbert					X		X	X	X	X JUNE	
Nopiming		X									

Pamphlets

To obtain a variety of interpretive information about parks environments, contact:

Department of Natural Resources
Public Information Unit
Publication Distribution
Box 22, 1495 St. James Street
Winnipeg, Manitoba
R3H 0W9

Phone: 945-6799

Audio-Visual Information

A variety of slide presentations relating to outdoor environmental topics are available through the Public Information Unit. For information, telephone 945-6799.

Library Services

Information on the following and other topics is available for use only in the Natural Resources Departmental Library, 1495 St. James Street, Winnipeg, 945-6610

- Systems Planning
- Master Planning
- Tourism Development
- Interpretation
- Outdoor Education
- Outdoor Recreation
- Ecology
- History, etc.

b) Public Information Unit

Pamphlets and a list of video/slide programs are available on request from:

Department of Natural Resources
Public Information Unit
Box 22, 1495 St. James Street
Winnipeg, Manitoba
R3H 0W9
Phone: 945-6799

IMPORTANT!

Natural Resources films are available through the Public Library System - Winnipeg: 139 Hamelin Street, Fort Garry, Phone: 945-6453. Rural areas: Book through your local library.

Titles and summaries of all available materials are listed in two brochures: Publications List and Film List.

c) Surveys and Mapping Branch

A listing of maps available, along with prices, is available from:

Department of Natural Resources
Map Sales Office
1007 Century Street
Winnipeg, Manitoba
R3H 0W4

Phone: 945-6666

d) Wildlife Branch

Tours of the Oak Hammock Marsh Wildlife Management Area are available for school groups from mid-May to mid-October. To register for a tour contact:

Department of Natural Resources
Public Information Services
Box 22, 1495 St. James Street
Winnipeg, Manitoba
R3H 0W9

Phone: 945-6799

Project Wild Workshops

Project Wild is an environmental education program with emphasis on wildlife. It is an interdisciplinary instructional program designed for schools that allow teachers to integrate wildlife related activities into their classroom regardless of the subject area they teach. Project Wild workshops are provided free of charge in French and English to teachers and youth group leaders that are active in formal or informal learning environments. To arrange for a workshop contact:

English instruction

Project Wild Coordinator
Manitoba Natural Resources
Box 24, 1495 St. James Street
Winnipeg, Manitoba
R3H 0W9

Phone: 945-7763

French instruction

Le coordonnateur du programme
ATOUT-FAUNE
Bureau de l'education francaise
1181, avenue Portage
Piece 509
Winnipeg, Manitoba
R3G 0T3

Phone: 945-6916

FEDERAL DEPARTMENTS

Canadian Forestry Service

Pamphlets and other educational materials are available free of charge by contacting any of the following addresses:

Canadian Forestry Service
Manitoba District Office
104 - 180 Main Street
Winnipeg, Manitoba
R3C 1A6

Phone: (204) 983-4817

Canadian Forestry Service
Northern Forestry Centre
5320 - 122 Street
Edmonton, Alberta
T6H 3S5

Phone: (403) 435-7210

Canadian Forestry Service
Distribution Centre
Petewawa National Forestry Institute
Chalk River, Ontario
K0J 1J0

Phone: (613) 589-2880

Canadian Wildlife Service

A catalogue listing free publications is available by contacting:

Distribution Section
Canadian Wildlife Service
Environment Canada
Ottawa, Ontario
K1A 0E7

Department of Fisheries and Oceans

Pamphlets and films (loanable) are available free of charge from:

Freshwater Institute
Department of Fisheries and Oceans
501 University Crescent
Winnipeg, Manitoba
R3T 2N6

Phone: 983-5108

National Film Board

Films are available on loan from:

National Film Board of Canada
245 Main Street
Winnipeg, Manitoba
R3C 1A7

Phone: 983-4131

The libraries of the National Film Board of Canada offer a videocassette and film lending service. Most productions are also available for purchase.

1. Customers are asked to apply for a library card to facilitate transactions.

2. Orders are shipped by mail if the client cannot pick up at the library. Return transportation is at the client's expense.

3. Information and reference assistance is available on request. Descriptions for over 20,000 Canadian audiovisual productions are available from the NFB FORMAT database. A selection of catalogues and promotional documents is also available. General advice on other sources for NFB productions may also be obtained on request through your NFB area library.

Canadian Parks Service

Publications are available from:

Canadian Parks Service
Prairie and Northern Regional Office
4th Floor
457 Main Street
Winnipeg, Manitoba
R3B 3E8

Phone: 983-2290

National Parks

Riding Mountain National Park

Main Brochure
Parks West
Lake Katherine Campground
Arrowhead Trail Guide
Cross-country and Snowshoeing
R.M.N.P. Trail Guide
Group Camps - Kippechewin and Ma-Ma-O-Pe
Loin des endroits habites (in French only)

Prince Albert National Park

Main Brochure
Parks West
Boundary Bog Trail Guide (in English only)
Aquatic Resource Manager
Grey Owl (Parks West)
Mud Creek Self-guiding Nature Trail

Kluane National Park

Main Brochure
Parks West
Hiking in Kluane
Mountaineering Application

Wood Buffalo National Park

Main Brochure
Parks West
Summary of Regulations Pertaining to Hunting and Trapping in WBNP - 1985

Grasslands National Park

Parks West

Auyuittuq National Park Reserve

Main Brochure
Parks West
Backpacking in Pangnirtung Pass

Ellesmere National Park

History
Parkscan - Agreement on Ellesmere Park (Oct. 1986)

Nahanni National Park

Main Brochure
Parks West
Guide to South Nahanni and Flat Rivers

National Historic Parks and Sites

Lower Fort Garry National Historic Park

History
Area Guide
Parks West

Manitoba North Sites

Area Guide
Parks West
History of Fort Prince of Wales

Motherwell Homestead National Historic Park

Main Brochure
Parks West

Battleford National Historic Park

History
What to Look For
Parks West

Fort Walsh National Historic Park

Area Guide
History - Fort Walsh
History - Cypress Hills Massacre
Parks West
Archaeology at Fort Walsh - A Mirror of Our Past
Archaeology at Fort Walsh - The Mounties as Pioneers

Fort Esperance National Historic Site

History

Riel House

History
Parks West

Batoche National Historic Park

Parks West
Batoche N.H.P. - Booklet

St. Andrew's Rectory

History

The Forks

The Plan

A.R.C. (Agreement for Recreation and Conservation - Red River Corridor)

Parks West

Klondike National Historic Sites

Parks West
Robert W. Service
The Gold Rush Trail (in English only)
Dawson City Buildings/Post Office
Gold Mining and the Creeks
Dawson City: Heart of the Klondike (contains information sheets on various historic sites)
S.S. Klondike/Steamer Keno - Parks West

Yukon National Historic Sites

S.S. Klondike

General

You are in Bear Country
The Buildings of Canada
The Evaluation of Historic Buildings
Researching Heritage Buildings (English only)
Policy on Federal Buildings
The Confederation Building
The World Heritage Convention
World Heritage
Hypothermia
Recognizing Canadian History
Canadian Heritage Rivers System (booklet and pamphlet)
Heritage Log
Visitor's Guide
Map of Canada
Historic - Guide to Canada's National Historic Parks
Welcome to National Parks
Discover Yourself in Canada's National Parks
Policy on Federal Heritage Buildings
East Arm of Great Slave Lake National Park Proposal

Prairie and Northern Region

Manitoba, Saskatchewan, Yukon, and the Northwest Territories

N.B. Brochures are bilingual or are available in French as well as English. Brochures currently available in one language only are indicated.

Books: "Grey Owl" ($7.95)
"Parks West" (Free)
"A Brief History of Canada's National Parks" (Free)

PRIVATE ORGANIZATIONS

Ducks Unlimited Canada

Ducks Unlimited Films are available free to wildlife and conversation clubs, sportsman groups, 4-H clubs, schools, fraternal and service clubs and other organizations and groups interested in nature and the environment.

Titles in the Ducks Unlimited library deal with waterfowl, wildlife and the general environment. All are suitable for general audiences. Some have been classified into specific interest areas.

Films are in 16 mm format. Some are available in VHS format as well. Free pamphlets are also available.

A brochure listing films is available from:

#5 - 1325 Markham Road
Winnipeg, Manitoba
R3T 4J6

Phone: (204) 269-6960

HEAD OFFICE

1190 Waverley Street
Winnipeg, Manitoba
R3T 2E2

Phone: (204) 477-1760
Toll Free Dial 1-800-665-DUCK

Manitoba Forestry Association

Pamphlets are available from:

Manitoba Forestry Association
900 Corydon Avenue
Winnipeg, Manitoba
R3M 0Y4

Phone: (204) 453-3182

Some Edible and Poisonous Berries ($ .75)
A Taste of Wild Fruits ($1.25)
) $1.75 for the set

N.B. - The Manitoba Forestry Association also produces "conservation kits". They will be printing 3 kits during the school year. The current series will be distributed free of charge, and back issues are still available for 60¢ each. A list of contents of all back issues will be provided on request.